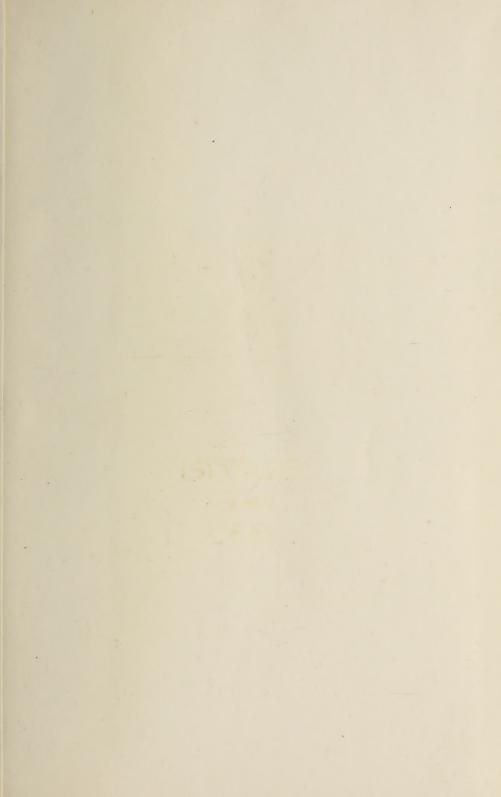
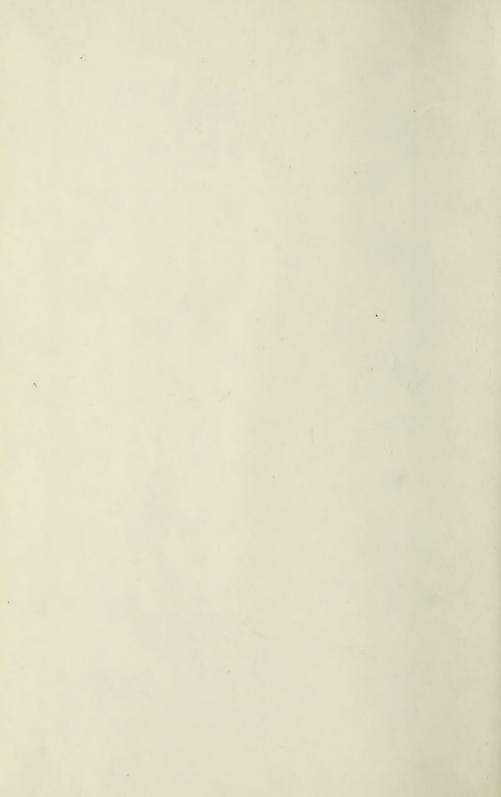


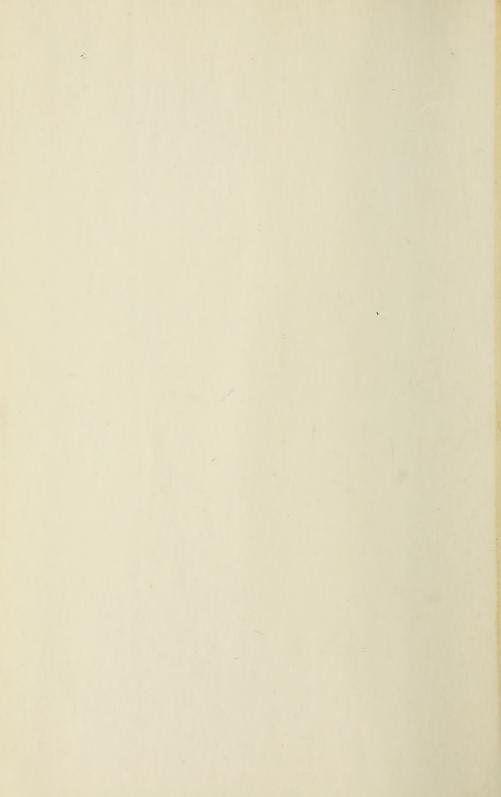
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ANNUAL REPORTS

OF THE

VARIOUS CITY OFFICERS

City of Minneapolis



FOR THE YEAR 1889.

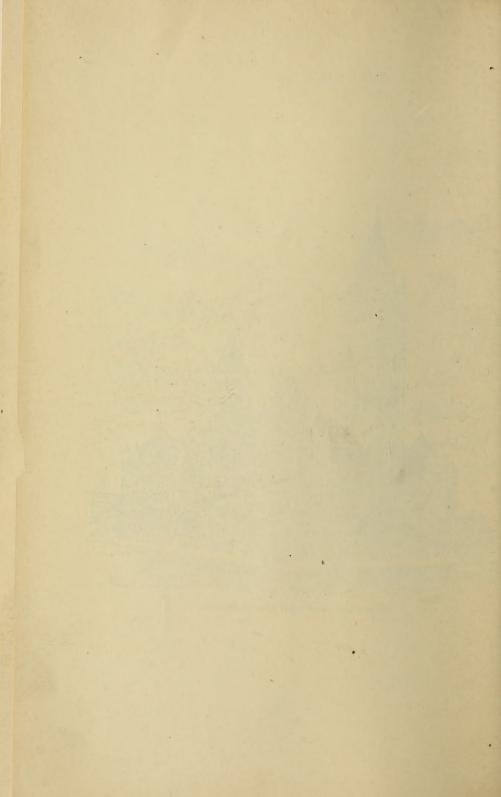
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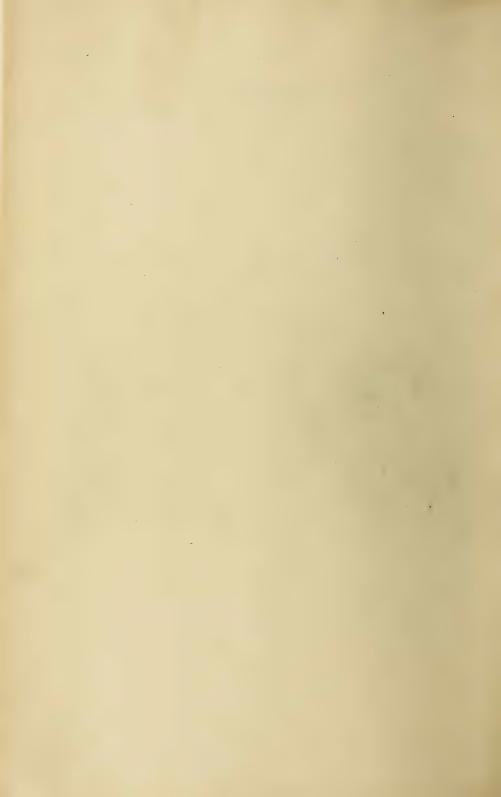


New City Hall and Court House.



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Assessor	





Public Library Building.



HISTORICAL.

In 1838, Franklin Steele erected his claim shanty on the eastern shore of the Mississippi river, opposite the falls of St. Anthony. Seven years later, or in 1845, the first permanent house was erected in St. Anthony by Pierre Bottineau. The same year the city of St. Anthony was incorporated, and Hon. H. T. Welles (still living), elected the first mayor.

In 1849 the western shore of the Mississippi at the falls was a military reservation, and hence settlement was not permitted. But at the session of congress of that year two ex-soldiers of the Mexican war—Hon. Robert Smith, of Illinois, and Col. John H. Stevens—were, by special act, allowed to make settlement on the reserve, and the former located his claim so as to take in the falls, while the latter built his house on the hillside where the union depot now stands, and near the spot where the western end of the suspension bridge was to terminate four or five years afterwards.

In 1854 the act was passed and became a law, throwing open to settlement the reservation west of the Mississippi river, and the "squatters" were allowed to purchase the lands upon which they had settled at the uniform government price of \$1.25 per acre. At the election that year seventy-five votes were cast, and the population was estimated at two hundred. In the fall of the same year the town was christened, the name "Minneapolis" having been suggested by Mr. Charles Hoag, a gentleman who lived to a ripe old age in the vicinity of this city, dying in March, 1888.

In 1854 the city of Minneapolis (west division) was platted, and before the close of that year boasted of a permanent population of 1,000 people. In 1857 the population had increased to about 2,000, and there was a tremendous rivalry between the two hamlets, (St. Anthony and Minneapolis.) In 1858 Minneapolis was vested with its first town or village government, but did not assume the responsibility of a full-grown municipality until 1867.

Minneapolis and St. Anthony were rivals for commercial and manufacturing supremacy for more than twenty years, but finally in 1873 joined their fortunes under one name and one municipal government, and have since been known to the world as the progressive city of Minneapolis, with an area of 53 square miles, or 33,920 acres, with 1,425 acres of parks, with seven miles of paved alleys, with 21 miles of cedar block street paving, with 142 miles of water mains, with five miles of granite block paving, with 67 miles of curbing, with 57 miles of sewer, with 50 public school buildings and an enrollment of 22,000 school children, with population of 230,000, with 34,129 voters in 1888, with an assessed valuation of \$128,000,000, and a banking capital of \$8,720,000.

SUMMARY CITY OFFICERS, 1881 TO 1890.

*Elected mayor April 1, 1884; resigned as alderman of Fifth ward April 2, 1884. †Resigned Feb. 25, 1884. ‡Elected March 15, 1884. § Resigned Feb. 27. 1884. ¶ Elected March 15, 1884. ¶ Elected April 1884; Telected March 15, 1884. ¶ Elected March 15, 1884. ¶ Elected March 15, 1884. ¶ Elected March 15, 1884. § Telected March 25, 1887. On By act of legislature transferred parch ward for the unexpired part of his term. (c) Died Aug. 18, 1889, and Dr. §. E. Hanson, elected Sept. 10, 1889, to fill the unexpired term of D. G. Thompson.

ELECTIVE CITY OFFICERS.

Е. С. Вавв,		-		-		-		-	Mayor.
EDER H. MOULTON,	-		-		-		-		Treasurer.
JOHN F. CALDERWOOD,		-		-		-		-	Comptroller.
GEORGE D. EMERY,	-		-		-		-		Municipal Judge.
STEPHEN MAHONEY,		-		-		-		-	Special Municipal Judge.
ED. M. VAN CLEVE,	-		-		-		-		Justice of the Peace E. D.
George S. Grimes, -		-		-		-		-	" N. D.
ACE P. ABELL, -	-		-		-		-		. " S. D.

APPOINTIVE CITY OFFICERS.

City Attorney.

ROBERT D. RUSSELL.

RUBERT D. RUSSELL,			_		_		City, Accorney.
CHAS. F. HANEY, -							
ANDREW RINKER,	-		-		-		City Engineer.
J. C. PLUMMER, -		-		-		-	City Assessor.
FRANK L. STETSON,	-		-		-		Chief Engineer of Fire Dept.
C. L. SNYDER, -		-		-		-	Superintendent of Poor.
J. M. HAZEN,	-		-		-		Inspector of Buildings.
Dr. C. A. Chase,							City Physician.
Dr. S. S. KILVINGTON	,		-		-		Commissioner of Health.
JOHN WEST, -		-		-		-	Superintendent of Work House.
D. T. DAVIES, -	-		-		-		Inspector of Meats.
A. G. Mosher -		-		-		-	Sealer of Weights and Measures.
A. P. Anderson,	-		-		-		Inspector of Street Lights.
Rufus Roberts, -		-		-,		-	City Weigher.
WILLIAM COLLINS,							
JOHN G. STERRETT,							
FRANK T. GAYLORD,	-		-		-		Elevator Att'd City Hall.
							Bridge Watchmen,
							Poundmasters,

STREET COMMISSIONERS.

JOHN FOLEY, -		-		-		-		-		-		-	First Ward.
J. H. Brown,													
HUGH WILSON,		-		-		-		-		-		-	Third Ward.
ROBERT MCMULL	EN,		-		-		-		-		-		Fourth Ward.
J. M. COLE		-		-		-		-		-		-	Fifth Ward.
E. NEWMAN,	-		-		-		-		-		-		Sixth Ward.
C. M. SPILLMAN,		-		-		-		-		-		-	Seventh Ward.
JAS. S. TRIPP,	-		-		-		-		-		-		Eighth Ward.
JOHN FLEMMING,		-		-		-		-		-		**	Ninth Ward.
W. R. MEDCALF,	-		-		-		-		-		-		Tenth Ward.
C. M. MATHEWS,		-		-		-		-		-		-	Eleventh Ward.
WILLIAM MARR,	-		-		-		-		-		-		Twelfth Ward.
G. S. BICKNELL,		-		-		-		-		-		-	Thirteenth Ward

The Street Commissioners are appointed by the City Council for a term of one year.

ELECTION OF ALDERMEN.

AN ACT, To amend Section One, Chapter Two of the Charter of the City of Minneapolis, enacted by the Legislature of the State of Minnesota, and approved April 3rd, A. D. 1889.

SECTION 1. The elective officers of the City of Minneapolis shall be a mayor, a treasurer, a comptroller, members of the city council and the members of such other boards as this charter shall create and declare to be elective officers of the city.

The city council shall consist of three (3) aldermen from each ward in the city until the first (1st) Monday in January, one thousand eight hundred and ninety-one (1891), and thereafter shall consist of two (2) aldermen from each ward, to be elected by the qualified voters in their respective wards.

The aldermen shall each hold office for the term of four (4) years from and after the first (1st) Monday in January next following his election: *Provided* that the aldermen who were elected at the general election held in November, one thousand eight hundred and eighty-eight (1888), and qualified under such election, shall continue in office until the expiration of the term for which they were elected.

At the general election to be held in November, one thousand eight hundred and ninety (1890), and at each general election held every two years thereafter, there shall be elected one (1) alderman from each ward, to serve for the term of four (4) years from the first (1st) Monday in January, next following his election.

CITY COUNCIL.

The City Council is composed of thirty-nine aldermen, three from each ward in the city, elected two for two years and one for four years, term of office beginning with the first Monday in January, 1889.

	OFFICERS.	
E. M. Johnson, J. C. Sterling, Chas. F. Haney,		President. Vice President. Clerk.
	FIRST WARD.	,
John T. McGowan, Joseph Ingenhutt, Fred Brueshaber, Jr.,		Four years Two years. Two years.
	SECOND WARD.	
E. M. Johnson, F. C. Barrows, V. M. Smith,		Four years Two years. Two years.
	THIRD WARD.	
GEO. A. DURNAM, C. P. ENSTAD, JOHN A. GILMAN,		Four years Two years. Two years.
	FOURTH WARD.	
E. G. POTTER, - EMERSON COLE, - S. B. LOYE, -		Four years Two years. Two years.
	FIFTH WARD.	
C. P. LOVELL, H. W. BRAZIE, THOS. DOWNS,		Four years Two years. Two years.
	SIXTH WARD.	
SAM'L HUNTER, - CHRIS. ELLINGSEN, - J. A. SWANSON, -		Four years Two years. Two years.
·	SEVENTH WARD.	
JOHN H. PARRY, - J. M. MELOY, - O. P. FLATEN, -	SEVENTH WARD.	Four years. Two years. Two years.
	EIGHTH WARD.	
MELVIN GRIMES, - J. C. STERLING, - DANIEL G. THOMPSON,*		Four years. Two years. Two years.
	NINTH WARD.	
Jas. H. Bradish, Erik Rhode, - Herman Vogt, -	NINTH WARD.	Four years. Two years. Two years.

^{*}Died August 18th 1889. Dr. F. E. Hansen elected September 10th, 1889, to fill the unexpired term of Daniel G. Thompson.

		TENTI	H WAF	RD.				
VINCENT REEVES, W. J. BURSELL,	-		-		-	-	-	Four years. Two years.
B. H. BILLINGS, -	-	-	-	-			-	Two years.
	F	LEVEN	TH W	ARD.				
JOHN A. BLICHFELDT, JAY W. PHILLIPS,	-	-	-	-	-		- ,	Four years.
JAY W. PHILLIPS, - OTTO A. FULTZ, -	-	_	_		_	-	-	Two years. Two years.
,		TWELF	יייי אייי	L D D				
								773
WM. B. WOODWARD,	-	-	-	-	-		-	Four years.
J. E. VANDEWAKER,		-				-		Two years.
A. S. Adams, -	-	-	-	-	-		-	Two years.
	TI	HRTEE	NTH V	VARD.				
D. D. FARNSWORTH,	_	-	_	_	_		_	Four years.
GEO. H. WARREN, -	_	_				_		Two years.
J. S. GRAY,	-	-	-	-	-		-	Two years

STANDING COMMITTEES FOR 1889-1890.

Ways and Means—Cole, Lovell, Barrows, Warren, Reeves.
Salaries—Vandewaker, Hansen, Cole, Fultz, Gilman.
Claims—Potter, Gray, Gilman, Downs, Grimes.
Taxes—Lovell, Sterling, Smith, Meloy, Adams.
Licenses—Meloy, Enstad, Brueshaber, Grimes, Bursell.
Accounts of City Officers—Swanson, Farnsworth, Gray, Gilman, Vandewaker.
Public Grounds and Buildings—Downs, Vandewaker, Enstad, Hunter, Flaten.
Bonds of City Officers—Billings, Hunter, Loye, Bliehfeldt, Brueshaber.
Rouds and Bridges—Cole, Bradish, Lovell, Parry, Woodward.
Street Grades and Additions—Hunter, Flaten, Farnsworth, Brueshaber, Bursell.
Fire Department—Ellingsen, Woodward, Rhode, Phillips, Barrows.
Water Works—Barrows, Meloy, Fultz, Warren, Downs.
Gas—Smith, Blichfeldt, Hansen, Loye, Vogt.
Sewers—Vogt, Downs, Swanson, Durnam, Smith.
Markets—Gray, Reeves, Potter, Ingenhutt, Ellingsen.
Printing—Fultz, Bursell, McGowan, Flaten, Hunter.
Railroads—Warren, Cole, Phillips, Barrows, Meloy.
Police—Phillips, Farnsworth, Ingenhutt, Enstad, Rhode.
Health and Hospitals—Brazie, Potter, Sterling.
Cancellation—Rhode, Ingenhutt, Woodward.
Ordinances—Bradish, Vandewaker, Sterling.
Rules—Adams, Brazie, Bradish.
Workhouse—Sterling, Billings, Vogt, Warren, Brazie.
Paving—Reeves, Lovell, Durnam, McGowan, Blichfeldt.
Bethany Home—Parry, Grimes, Loye.
Underground Wires—Woodward, Vogt, Billings, Potter, Ellingsen.
Structuriers of the Power McGowan, Swanson, Philling, Smith, Parry, Adams, Structuriers of the Power McGowan, Swanson, Philling, Smith, Parry, Adams, Structuriers of the Power McGowan, Swanson, Phillips, Smith, Parry, Adams, Structuriers of the Power McGowan, Swanson, Philling, Smith, Parry, Adams, Structuriers of the Power McGowan, Swanson, Philling, Smith, Parry, Adams, Structuriers of the Power McGowan, Swanson, Philling, Smith, Parry, Adams, Structuriers of the Power McGowan, Swanson, Phillips, Smith, Parry, Adams, Structuriers of the Power McGowan, Swanson, Phillips, Smith, Parry, Adams, Structuriers of the Power McGowan, Swanson, Phillips, Smith, Parry, Adams, Struct

Supervisors of the Poor—McGowan, Swanson, Phillips, Smith, Parry. Adams, Durnam, Gray, Loye, Bradish, Brazie, Reeves, Hansen.

SALARIES FIXED BY THE LEGISLATURE.

	Per	Annum.
Mayor		\$2,000
Aldermen		720
Aldermen, (after first Monday in January, 1891,)		500
City Clerk, (he to turn in to the city treasury all fees received	by	
"public law;" the city to pay all clerk hire)		3,100
Commissioner of Health		2,000
Municipal Judges		3,000
Clerk Municipal Court		1,800
Deputy Clerks		1,000
Stenographers		1,200

SALARIES FIXED BY CITY COUNCIL.

SCHEDULE OF SALARIES FOR 1889-1890.

	r Annum.
City Attorney	
Assistant City Attorney	
Second Assistant Attorney	. 1,200
Stenographer for City Attorney	. 780
City Treasurer, (treasurer makes no return of interest to the city, to)
be paid for necessary extra help subject to approval of council)	. 1,200
Teller, City Treasurer	. 1,200
Book-keeper	. 800
City Comptroller, (no extra allowance for clerk hire)	
Deputy City Comptroller	
Assistant City Clerk	. 1,000
Clerk City Clerk	. 1,000
Clerk City Clerk	. 840
Clerk City Clerk	. 780
City Assessor	. 2,000
Clerk, Assessor, per day	3.50
Superintendent of Poor	. 1.500
Clerk, Superintendent of Poor	. 900
Inspector of Buildings	. 2,000
Assistant Inspectors	. 1.000
Clerk, Inspector.	
Inspector of Meats	
Assistant Inspector of Meats	1,200
City Physician	1.500
Assistant City Physician.	. 900
Street Commissioners	. 900
Matron City Hospital	600
Sealer Weights and Measures, fees and	. 200
City Weigher	
Pound Masters	500
Engineer of City Hall	1,000
Assistant Engineer of City Hall	. 800
Elevator Attendant	720
Mayor's Secretary	600
Janitor, Municipal Court	
Inspector of Street Lights	. 1.166
Janitor, City Hall	1,300
Bridge Watchman, Steel Arch and Suspension	. 1,300
"Plymouth Avenue	. 500
" " " Twentieth Avenue North	. 500
Franklin Avenue North	. 500
" Franklin Avenue	. 500
" Washington Avenue South	500
washington Avenue South	. 000

CITY ENGINEER'S DEPARTMENT.	Por /	Annum
City Engineer, (engineer to hire and fix salaries of subordina	tes.	xIIIIIIIII
subject to approval of city council)		\$4,500
A call Engineer in charge of sewer department		1,900
·· ·· general ·· · · · · · · · · · · · · · · · · ·	173.17	1,800
" streets	1.11	1,500
·· ·· · · bridges and buildings	/	2,000
water works		1,800
Draughtsman " " "		840
Chief clerk	Per	Month
Chief clerk		\$115
Assessment clerk		$\begin{array}{c} 75 \\ 95 \end{array}$
Ass't sewer engineer Sewer department clerk.	1.0	75
Bookkeeper		80
Sidewalk superintendent		85
Transit men	00 to	115
Level men.	5 to	90
Draughtsmen	5 to	85
Rodmen and chainmen, per day\$2.5	25 to	2.50
FIRE DEPARTMENT.		Annum
Chief Engineer	r.er.	\$3,000
First Ass't Chief Engineer	111/6	
Second "		1,500
Superintendent of fire alarm		1,500
Linemen	1 1 1 1 1	900
Superintendent of horses	, .	1,200
Engineer of steamers		1,200
Ass't " "		900
Captains		1,020
Lieutenants		900
Pipemen, truckmen and drivers, first class	11-11	900
second class	1. 1.	840
SupervisorWATER WORKS.		
Supervisor		\$1,500
Registrar		2,000
Cashier		
Clerk		900
Meter inspector		840
Inspector		840 780
Inspector		840
Street foreman.		1.500
Hydrant men.		800
Engineer North Side pump house		1.800
Ass't " " " "	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,200
Ass't " " " " " " Oilers " " " " " " " " " " " " " " " " " " "		840
HEALTH DELANTHENT.		
Medical inspectors\$96		\$1,000
Sanitary "		1,000
Clerk		480
Dumpkeepers	to to	600
	الأومة في	600
WORK HOUSE.		@ = E00
Superintendent work house		
Engineer		\$83.33
Ass't engineer		45.00
Hallmaster and bookkeeper.		45.00
Guards, each		45.00
Driver		45.00
Night watch		45.00
Cook.		60.00
Matron		40.00
Deputy superintendent		83.33

VALEDICTORY ADDRESS

OF

His Honor, A. A. AMES, Mayor of the City of Minneapolis,

JANUARY 7TH, 1889.

To the Honorable, the City Council of the City of Minneapolis:

Gentlemen:—I appear before you at this time for the purpose of retiring from the position of chief executive of this city. With this meeting I conclude three terms as mayor—five years and nine months—the longest term of service ever before given you by a citizen in this position. Notwithstanding I go from the place a wiser but a poorer man, I still do not regret the time I have given to the service of the city. "I point with pride" to the record of the last administration and "view with alarm" the change which has taken place from a rule of the democracy—the people—to a government of our friends, the well known enemy. During the last two years and nine months' administration I feel that the retiring council has done much which will, in the future, resound to their credit. While they have been the friends of labor and acceded to all its reasonable demands, still they have been just in all their dealings with capital. They passed the ordinance making eight hours a legal day's work on the public works of this city, and thereby gave employment to at least one-third more workmen. They also abolished the contract system, as far as was practicable, and saved to the treasury the enormous profits which had heretofore been reaped by contractors. Out of these savings the extra laborers required by the eight hour system have been paid without detriment to the city.

LEGISLATION.

The greatest calamity which has been inflicted upon the City of Minneapolis for several years has been the meetings of the legislature. Through this agency our charter has been tinkered up to suit the private whims of obscure citizens, and we are to-day cursed with conflicting laws unintelligible

to citizens and inexplicable by the courts.

I respectfully recommend to the incoming council the appointment of an intelligent committee on legislation, whose duty it shall be to see if harmony cannot be made out of the present chaos. What Minneapolis now needs is home rule. The state should accord us the privilege of managing our own local affairs. You should petition the bucotic members of that august body to accord to the citizens of this great metropolis, with its quarter of a million of inhabitants, the knowledge of knowing what is for their best interests in its government. One of the most important dangers which threatens our future are legislative provisions for the appointment of boards and commissions to control our affairs, the members of which are not elected by the people, whose millions of dollars they are authorized by legislative enactments to expend. In this connection I desire to recommend to you an important and radical change in local affairs. I believe that the mayor, coming as he does fresh from the people, should be clothed with absolute power as far as their government is concerned. He is directly answerable to them for all his public acts, and if the people make a mistake it is easily

remedied at the ballot box. If the president of the United States is competent to choose men as his chiefs of the various departments under him, and the governors of the various states are considered competent to choose the heads of departments, why should the mayor of the city of Minneapolis not be considered competent to select and be responsible directly to the people, the officers who have charge of the various departments of our city government? The plan which I suggest has been thoroughly tried in the city of Philadelphia, and has been found to bring officials more closely in connection with the people's interests than any other. In this city we have too many officials who are only accountable for their acts to some intervening power

between the taxpayers and their public servants.

I therefore recommend the abolishment of every board and commission created by legislative act, and to place the responsibility of our local government upon the chosen representatives of the people. In this connection allow me to caution you against the inroads which fanaticism and religious intolerance have recently been making upon the rights of the people. Every new member of this city council should remember that all nationalities who have sworn allegiance to this country and who are good citizens are entitled to all the rights ascribed to the most favored. The poor here should be the peers of the rich. But alas they are not! We already see that the offenses of a poor man are ten times more grievous than the same offense committed by a man of monied station. If this principle be followed it will, eventually, lead to revolution.

OUR PROSPERITY.

Our marvelous growth and wonderful development into the position of metropolis of the great Northwest has not, I take it, been impeded by the past administration, notwithstanding the opposition given it by our opponents and the press. Minneapolis stands to-day as the queen city of the great Northwest, holding the keys of the great situation and enjoying the fruits of the extraordinary labor of her enterprising citizens. As in evidence of this, I have but to cite you to the report of our Building Inspector, Henry J. Bauman, who, in his annual report, says that he has issued 4,339 building permits; estimated cost, \$10,198,837. Čapital is as sensitive as a sensitive plant, and had its possessors not had confidence in the great future of this city there would have been no such showing as this. Our commercial, flour, lumber and other manufacturing industries have been so thoroughly commented upon by the public press as to require no allusion at my hands.

LAW DEPARTMENT.

I desire particularly to call attention to the report from the city's law department. Hon. Seagrave Smith, the city's attorney, in his report, the details of which are well known to us all, shows a record of ability never surpassed by any of his predecessors. By this ability he and his able assistant, Lars M. Rand, Esq., have meted even justice to offenders and saved the city thousands of dollars from threatened damage suits.

FINANCES.

It is a pleasure to report that the city of Minneapolis is financially solid and stands A 1 in the money marts of the world; her bonds command as high a premium and her credit is as stable as that of any city in this country. Her assessed valuation is \$127,069,756; her bonded debt is \$5,524,500; the amount in her sinking fund for the redemption of the interest on these bonds and the payment of them as they become due is \$425,823.

INTERNAL IMPROVEMENTS.

By reference to the report of Andrew Rinker, our able City Engineer, I find that during the year of 1888 there have been five and three-fourths miles of cedar block pavement laid, at a cost of \$141,478; also twenty-six and one-half miles of curb and gutter stone, at a cost of \$133,450; also sewers and sewer tunnels, nine and two-fifths miles, at a cost of \$385,377; also of water mains nineteen and one-half miles, at a cost of \$262,126. In a recapitulation, commencing in 1882, when the first paving of this city was done, it appears that we now have twenty and one-half miles of streets paved, at a cost of \$794,208. The first curb and gutter was laid in 1882; since then there has been a little over 61 miles placed in position, at a cost

of \$367,120. Sewerage was begun in this city in 1871; since then there has been a little over forty-nine miles of it constructed. We have eight bridges across the Mississippi river, connecting the East and West divisions of the city. The total cost has been \$1,156,000. The first water mains of any consequence, laid in this city, was about the year 1868; we now have about one hundred and thirty-one and one-third miles. There has been ordered for the year of 1889 eight and one-half miles of paving; sixteen and two-third miles of curb and gutter; eighteen and two-third miles of sewers: seventeen and one-half miles of water mains.

THE SOLDIERS' HOME.

Since my last message, through the foresight and enterprise displayed by your honorable body, in connection with other well known citizens, the location of the Minnesota Soldiers' Home has been secured within our city limits. Fifty-two acres of land, comprising the peninsula lying between the Mississippi river at Minnehaha creek was purchased at a cost of \$55,000 and tendered to the state as a site. Your honorable body pledged the faith of the city to the issuance of bonds for this amount. A number of our leading citizens upon your pledge secured by note the purchase money and the site was accepted by the state officials. Since then the board of directors of the soldiers' home have erected two substantial brick cottages, each capable of housing and careing for at least 55 inmates. It is now contemplated by the board of directors to erect a headquarters building, hospital and two more cottages during the coming summer.

PARKS AND BOULEVARDS.

If there is any one thing more than another with which our good people can point to with pride, it is our parks, park-ways and boulevards. Our parks are so located as to afford the laboring classes easy access, and each one is a beauty spot and breathing place for them and their children. The parkways and boulevards have been mgnificently adorned with shrubbery and trees until they have become a source of great pleasure, not only to our own people but to all visitors to the city. While on this subject, I desire to recommend the opening of a boulevard from or in the vicinity of Lake Harriet down the romantic banks of Minnehaha creek to a point just below Minnehaha falls; also the purchase by the city of about four acres of land now occupied temporarily by the Minnesota Soldiers' Home, and the presentation of the latter to the state for soldiers' home purposes; also the construction by the city of a bridge from this last named property over to and in connection with the plat already made for driveways upon the property already donated by our city for soldier home purposes; also the laying out of a boulevard from the soldiers' home up and along the banks of the Mississippi river to connect with our boulevard and park system in the southern portion of the city. When this shall have been done, and I earnestly hope that it may be, no city in the Union can boast of a better or more magnificent system of parks, park-ways and boulevards than Minneapolis will have. If the plan which I have marked out is consummated I feel that the enterprise of the city of St. Paul will be willing to extend their boulevard and park system to connect with us at the soldiers' home; also that the state could be induced to erect a bridge across the Mississippi river at the soldiers' home, thereby connecting the two cities' boulevard system.

During last winter our park board inaugurated what has been known as winter sports, which consisted of a speeding track for horses on Lake Calhoun, skating rinks on our various lakes, and toboggan slides in many of the parks. They proved a great success, affording much recreation and amusement to our people. I recommend that these sports be continued and extended in order to afford our citizens a good excuse for staying at home dur-

ing the winter season.

THE POLICE FORCE.

Of this, one of the most important departments of the city, I shall have but little to say. It is largely composed of thoroughly competent men, and is well officered. The control of it was, under the influence of local fanatics, aided by the country members of the last legislature, transferred from the mayor to a board of police commissioners, who were not selected by the people: since then the principal duties of the policemen have been to watch out

for commissioners—the arrest and conviction of offenders against state laws and ordinances being a secondary consideration. I believe that the control of the police force by a commission, not answerable to the people for their acts, is detrimental to the public service. I therefore recommend that your committee on legislation earnestly labor for the repeal of the police commission law and restore to the mayor the absolute control of the police force of the city and all responsibility in connection therewith.

FIRE DEPARTMENT.

Little need be said in reference to the fire department of the city of Minneapolis, which has a world wide reputation for efficiency second to none in the country. Under the able management and discipline of Chief Engineer Frank L. Stetson, and the support which your honorable body has given him, our citizens feel secure as far as skill in fighting fire is concerned.

CITY LIBRARY.

One of the monuments to Minneapolis public enterprise is the erection of the public library building, a beautiful and substantial stone structure at the corner of Hennepin avenue and Tenth street. The amount of money already expended in the construction is about \$186,000. When completed the structure will have cost about \$200,000.

WATER WORKS DEPARTMENT.

Since my last report the water works department of the city has made an important stride in the right direction by establishing a pumping station at Shingle Creek, about two miles above the present source of supply. The plant will cost the city, when completed, about \$141,000, and will have a capacity of thirty million gallons per day, which is equal to that now given from the two central pumping stations. During the year about nineteen and one-half miles of water mains have been laid. The cost of laying the mains has averaged about 37 cents per foot under the eight-hour system, while under the contract system the year before the cost was 47 cents.

OUR SCHOOLS.

During the year there has been expended in the construction of school buildings and other necessary school expenses \$942,000, of which about \$273,000 was for salaries of teachers. Our numerous and substantial school structures and the efficiency of our school system is a source of pride to every Minneapolitan.

CITY HALL AND COURT HOUSE.

Among the gigantic strides of enterprise exhibited by Minneapolis has been the erection of a city hall and court house to be used by the city and county. It will have cost \$2,000,000 when completed, and will occupy the block bounded by Third and Fourth avenues south, Fourth and Fifth streets, and when completed will be one of the most magnificent structures of its kind in the country, and a monument to the enterprise of our citizens.

HEALTH DEPARTMENT.

To Dr. S. S. Kilvington, and his corps of assistants, the city is much indebted for their labors during the last year. From personal observation I am convinced that the city has never before been so well policed for health as it has been under him. He has had under his personal supervision and quarantined 3.621 cases of contagious diseases. Meat Inspector, Thomas F. Mea. has been thoroughly efficient in his department, and has condemned 145.511 pounds of meat which was offered for sale and was unfit for human consumption.

During the year and nine months just past there have been 5,100 deaths and 7.324 births.

CARE OF THE POOR.

During the year the supervisors of the poor have expended \$24,934.61 under the supervision of M. R. Curtiss, the able and efficient superintendent. There has also been established a city hospital under the direct supervision of Dr. James H. Dunn, assistant city physician. All the sick poor have been cared for at a much less expense than during former years, when they were farmed out to private hospitals. I feel that the kind attention given

the sick poor of our city, by Superintendent Curtiss and Dr. Dunn, is worthy of special commendation.

BETHANY HOME.

This institution is one of the most charitable and praiseworthy in our midst. It has done a noble work in the past in the way of redeeming fallen women and caring for their helpless infants. It is a private charity, and as such should receive a generous support from those charitably disposed. I do not believe that the public funds, no matter from what source they may have been procured as long as it was in accordance with law, should be diverted from their legitimate channel or appropriated to the support of private institutions. I have been heralded through this community as an enemy of Bethany Home. I am not. I have nothing but praises to sound on behalf of the noble ladies who have done such good samaritan work in this institution. My experience as a physician in this city has shown that a very considerable number of the inmates of Bethany Home, coming as they have under my professional and official eyes, are residents of other localities. Many of them have demonstrated to me that their seducers or wealthy keepers were willing to pay all their expenses, and with this in view I have sent them to Bethany Home. It is not only a charitable institution, but a private and reformatory institution as well. While I believe it should receive a reasonable support from those charitably disposed, still it should not become a city blood-sucker: nor should the private reformatory ideas of any sect be carried out at the public expense. If we had to we could care for the unfortunate inmates of Bethany Home at our city hospital at one-hundredth part of the present expense, when coupled with the reformatory detention of six months now exacted of Bethany Home inmates. I hope this great charity may continue to prosper, but not at the expense of the public treasury.

SAINT ANTHONY FALLS.

The general government has expended a large amount of money for the preservation of our water-power; they refuse to do any more in this direction. The fact stares us in the face that the apron which protects the old falls from the undertow current of the water is in a badly decayed condition. In my opinion it has now become necessary that the city shall take charge of these works and secure for it the proper legislation to make all necessary repairs, and to assess a proper proportion of said costs against property immediately interested and benefited.

RECOMMENDATIONS.

First. That the newly elected members do not spend the most of their time and influence in trying to get the major portion of the money in the public treasury appropriated for improvements in their respective wards.

Second. That no more street lamps be ordered for cow pastures, meadow lands, corn fields and other broad acres, whereby real estate dealers expect

9,000 per cent on the money which they have invested.

Third. That none of the incoming officers shall so allow his head to become swollen that he cannot be recognized by his friends or with courtesy

transact the legitimate functions of his office.

Fourth. That liberal aid be given the Minneapolis Industrial Exposition in the way of illuminating our principal streets, ample police protection to the building and its exhibitors, and the entertainment of the guests of the

city during the exposition.

Fifth. That proper legislation be secured whereby a contingent fund may be set aside from the treasury for the use of the chief executive, to be expended by him in such cases as he may deem best for the public interest. This fund should be overlooked by the finance committee of your honorable body only, and the results not in detail reported to you for approval. This method has been adopted by many of the leading eastern cities, and if followed here would raise an enormous financial weight from the mayor's pocket book.

Sixth. That each member of the new council so conduct himself during the next two years that his constituents will not be led to believe that he really thinks that he should be the next mayor of the city.

Seventh. That base ball, courting in the parks, and whisky drinking on

Sunday be strictly guarded against, especially by city officials.

That the salvation army be allowed all the privileges usually Eighth.

accorded to other religious fanatics.

Ninth. That the incoming administration carefully observe the record of its predecessor, and that an equal showing be made in the shape of work for the amount of money expended.

Tenth. That at the end of your respective terms you shall not be accused

by the republican press of the city and state as having been boodlers.

Eleventh. That after you have lapored long and arduously for what you consider to be for the best interests of your constituents, that you do not explode the old chestnut, when you are defeated for a re-election, that republics are ungrateful.

IN CONCLUSION.

I now desire to return to the council who have served during my administration, my most sincere thanks for the courtesy which they, and the other city officials, have always been pleased to extend to me as mayor. And in addition I bear cheerful testimony to their uniform courtesy and devotion to the duties of their offices with the public.

I now take pleasure in introducing to the incoming council my successor,

the Hon. E. C. Babb, who comes fresh from the people.

A. A. AMES, Mayor.

INAUGURAL ADDRESS

 \mathbf{OF}

His Honor, E. C. BABB, Mayor of the City of Minneapolis,

JANUARY 7TH, 1889.

Mr. President and Gentlemen of the City Council:

Having been called with you by the suffrages of our fellow citizens to the care and direction of the affairs of this city for the next two years, we have met together to-day to inaugurate our official service.

In accordance with custom, it is incumbent upon me, as mayor, to give you at this time "such information" and to recommend to you "such

measures" as I "may deem advantageous to the city."

It is with especial gratification that I assume the duties of my office, associated with you as the city's council. Many of you are new to the work you have been summoned to do, but you have been chosen to your responsible position, honored by the general expectation and confidence that you will endeavor, in your public service, to advance only the welfare of the city, while those of you who were members of the council whose term has just closed, bring to the new administration justly earned individual reputations for work well done, together with a helpful experience in, and a wide knowledge of municipal affairs. Association with you is therefore cause for personal gratification.

As we begin our work, in view of what has just been said, it is but reasonable to expect that the record to be made by you, will amply commend itself to the approval of our fellow citizens. You are now representatives of the whole community. For the time being any partisan character you may have is laid aside. Your duties are to be done without prejudice or favor, without

bondage to any political party, social class or religious sect.

One of the common temptations to which municipal legislatures are exposed is to the enactment of numerous laws for specific objects. With the best of dispositions, this tendency opens the way to most of the errors which limit the usefulness of these bodies. I feel it a duty, therefore, to advise

you to allow as little special legislation in your work as possible.

Minneapolis has become one of the large cities of the country. Its growth during the last eight years has been unparalleled. From a population amounting to about 46,000 at the last. United States census, it has increased until now more than 200,000 people dwell within its limits. Its assessed valuation is now more than \$127,000,000. Its public improvements are of very great value and serviceableness. In manufactures and commerce, it is rapidly taking an advanced position, and soon will be abreast of many communities which a few years ago were far in its front. In educational and social privileges, it compares favorably with any other city in the country. Minneapolis is fast becoming a metropolis of the first rank. Evidently then, the care and direction of its corporate affairs have become in the highest degree important and demand the most painstaking and capable service.

The city's financial status, the supervision of the expenditure of the large sums of money placed at your disposal, the planning and operation of the agencies necessary to secure and to advance public safety, comfort and health

the proper encouragement and nurture of a public policy by which the industrial and commercial prestige, and the educational and social progress of the city may be maintained and advanced, lay exacting responsibilities upon the city's council of increasing gravity. It is advisable, therefore, that I should speak of these various matters specifically and somewhat at length.

THE CITY'S FINANCIAL STATUS.

The financial status of the city is a subject which must be carefully kept

in view in your financial legislation.

The city's bonded debt amounts now to the sum of \$5,524,500, distributed as the books of the comptroller and treasurer show. The assessed valuation of the city, which will remain at about the present figures for the next two years, is \$127,069,756. By general agreement hitherto, our bonded indebtedness may not exceed 5 per cent of the city's valuation, so that the limit of indebtedness which at present may be reached is at \$6,353,487. Deducting the present debt from these figures, there is left for a possible increase of our municipal obligation, about \$829,000. This statement, it will be observed, shows that the existing limit of indebtedness for the city has been closely approached.

From 1874 to the beginning of 1886, the city had assumed bonded obligations to the amount of \$3,124,000. During the past two years, however, this sum has been added to by \$2,400,000, leaving for the near future a margin of

further increase of but about \$829,000.

A glance at these figures makes it evident that so far as the sources of income for municipal expenditures from the issuance of bonds at present allowable are concerned, you will be very much limited. It is evident, too, that the remaining source of revenue for the city's expenses and expenditures, direct taxation, must be used to supply whatever deficit may arise from this narrow margin of possible indebtedness; that is, if the present rate of outlay is to be continued. But of course the tax rate should not be increased, if increase can possibly be avoided. On the contrary, every effort should be used to make this rate lower. Circumstances, therefore, force particularly upon your legislation the duty of caring for, and of advancing the public welfare as befits the needs of the city, and of doing this work, for the present and near future at least, with less means available than have been at command in the past. How this shall be done is a question of first importance. It is one that you are compelled to meet and answer. As to how you shall deal with it, I have no definite method to propose. It is, of course, not advisable, nor does it appear to be necessary that it should compel you to adopt a niggardly financial policy, but it does call for the application to your legislation of the strictest business principles: that is, of a rigid economy, prudence, calculation and thorough honesty.

There are doubtless some items of unnecssary expenditure that could be done away with, and there are probably some necessary expenses which could be lessened without injury to the general welfare. Places for such retrenchment will appear in the course of your investigations. But whatever revenue is really necessary to the proper administration of the city's government, and to the development of the admirable public improvements now in the course of construction, or that may become desirable, the progressive sentiment of our citizens will doubtless in time enable you to secure.

I make these statements concerning the city's financial status, simply that the gravity of your responsibilities may be clearly known as you assume

them.

PERMANENT IMPROVEMENTS.

In a statement handed to me by the city engineer it appears that there have been ordered for the present year, permanent improvements, the cost of which is summarized as follows:

Paving	\$239,946
Curb	97.287
Sewers	
Water mains	240,100
Water mams	240,100

Amounting in all to......\$1,151,523

In order to provide for the cost of these improvements, you have at your

disposal the revenue derivable from the direct tax authorized by law, of two mills on the dollar of the assessed valuation of the city, to constitute a permanent improvement fund, the money paid into what is known as the revolving fund for the present and former years, and the returns of bonds which may be issued. The resources summed up are in round numbers:

 Direct tax
 \$250,000

 Revolving fund
 274,000

Total \$524,000

Deducting this sum total from the above estimated cost of the improvements now ordered, we have a debit balance of \$626,000 to provide for. For this the city must become indebted, but as stated before, under the present condition of things, we have a margin for bonded indebtedness of but \$829,000. When, therefore, the public improvements ordered for this year shall have been provided for, the city, under the present 5 per cent. rule, will have exhausted all but about \$200,000 of the income it may derive from the issue of bonds.

How to obtain, during the present year, the means for other municipal expenses which are usually met by loans, and how to provide for the permanant improvements necessary in the next year, with this \$200,000, is a prob-

lem left to you for solution.

THE NEW COURT HOUSE AND CITY HALL.

In connection with this subject of permanent improvements and the bonded indebtedness of the city, it is in place to call your attention to the financial status of the city in its relation to the construction of the county and city building, which has been found necessary to meet the growing needs

of the community.

This structure, which will, when finished, be one of the handsomest, most commodious and convenient of its kind in the country, will probably take four or five years to complete. The authorized expense to be incurred in its erection is \$1,500,000. So far, the sum of \$343,188 has been spent for this purpose, of which \$321,558 was paid for the building site (the block bounded by Third and Fourth avenues south and Fourth and Fifth streets), \$21,130.11 for the excavation necessary for the foundation of the edifice, and \$500 for a temporary enclosure. This cost has been met by the issue of \$335,000 in bonds on the county's credit, which yielded a premium of \$2,000, and \$50,000 in bonds on the city's account, yielding a premium of \$380.

The board of commissioners in charge of the work has now \$25,810 in its treasury and city bonds as yet unsold to the sum of \$200,000. In view of the necessity for continuing the work thus begun, and for the probable need for other purposes of the \$200,000 spoken of in the preceding section, you will be obliged to meet this additional financial problem. I lay these matters before you simply that you may see at the outset of our administration the gravity

of the work imposed upon us.

THE WATER SUPPLY.

One of the most important matters affecting the city's welfare is the amount and quality of the water supplied to the people for industrial and domestic purposes, and for protection against fire. The source of supply used hitherto has been sufficient for all needs. Of late, years, however, through the extraordinary growth of our population, it has generally been believed that the water distributed through the city from the present works is not desirable for domestic uses. In compliance with popular demand, new water works have been constructed in the northern part of the city, above any sources of contamination from city sewage or street and factory drainage. These works at Shingle Creek will be ready for operation about the 1st of March, next. They are among the most complete works of the kind in the country. They will have a capacity for delivering fully thirty million gallons of water daily, and the works are so built that their capacity can be increased to sixty million of gallons. These works will probably be sufficient for the city's wants for ten years. In view of the abundance and excellence of water thus to be provided, the service of the works at the falls will no longer be needed, and, on account of popular sentiment, will not be desirable. I recommend, therefore, that as soon as the North Minneapolis works are ready for use the present stations be abandoned and given over to such other uses as may be found for their effective motive power.

THE FIRE DEPARTMENT.

The fire department of the city is, I believe, one of the best equipped and most efficient in the country. It commands the admiration of all who examine into its organization and observe its work. The immunity of the city for so long a period now from disastrous conflagration is owing largely to the well diciplined promptness, strength and skill of this organization.

THE HEALTH DEPARTMENT.

There is no subject affecting the well being of a community more than the ways and means for its proper sanitation. In every well ordered modern community, therefore, there should be an intelligent, active and authoritative health board. Cleanliness of streets and alleys, inoffensive and innocuous removal of offal and garbage from factories and houses, inspection and control over buildings and places likely to create filth and to breed disease, vigilance against the introduction or spread of infectious or contagious disease in the community, power in general to provide for the sanitary welfare of the people, should be vested in some competent organization. The efforts made to this end in this city hitherto deserve much commendation, as far as they have gone, but many difficulties have prevented them from being sufficient for our growing needs. It is now time that a health department, such as should exist in a city of the size, wealth and intelligence of this, should be formed and put at work here. I would therefore recommend that your committee on health and hospitals be organized with this need prominently in view, and that it investigate this matter thoroughly and evolve some plan by which the proper sanitation of the city shall be secured.

THE FALLS OF ST. ANTHONY.

I feel it my duty to call your attention to the condition of the apron which was built by the United States government a few years ago to protect the falls of St. Anthony. The government for some time past has declined to make any appropriation for the purpose of completing it or keeping it in repair. As a consequence, it is in great danger of being badly injured—it

may be destroyed—at any time of high water.

This disaster would injure the dyke which was also built by the general government at a cost of about \$500,000, and if this were damaged our great water power would be imperiled, and would soon disappear unless enormous expenditures of money were made to protect it. I learn that the water power companies cannot agree between themselves as to the repairs necessary, or as to their liabilities or duties in the matter. This city has too much property invested in its water works and bridges, to say nothing of its interest in the general loss that would come from the consequent depreciation of all real estate values, to allow this calamity to happen.

This matter, therefore, should be taken hold of promptly and vigorously. A bill is now before congress which provides for the turning over to the city of all the rights of the government to the improvements at the falls. Whether this bill becomes a law or not, self preservation must be observed,

and the time has come when further delays are dangerous.

If the water power companies and the parties most directly interested cannot be made immediately to repair or replace the apron, the city must see

that it is done.

For this purpose I suggest that the necessary legislation to enable the city to do this—to raise money for this purpose, if necessary—and granting power to assess a proper proportion of the expense upon the property immediately benefited, be secured without delay at the coming session of the state legislature.

This is a matter which, as I have said, calls for immediate attention and

prompt action.

THE PUBLIC PARKS.

The Minneapolis park system, as projected, is one of the most admirable in the world, and, as far as developed, justly deserves the pride of our citizens. This praiseworthy work is the result of the energy of a wisely directed, economical, energetic park board, under the presidency of Hon. C. M. Loring, aided by the generous co-operation of a number of our fellow citizens.

At present we have a park area of more than a thousand acres, and of more than thirteen miles of boulevard driveways, costing less than one-third of their present valuation, which is upward of a million and a half dollars.

Within the city limits are several beautiful lakes, three of which are already connected by wide driveways, one of these being partially and the other wholly encircled by generous boulevards. One of these lakes, the Lake of the Isles, is being rapidly transformed into a lake park, which will,

when completed, be unequalled for beauty among parks.

The proposed new boulevard from Lake Harriet to Minnehaha falls, two hundred to four hundred feet wide and five miles in length will be unsurpassed for the charm of its scenery. The prospective state park at Minnehaha falls in connection with Hiawatha park on the opposite bank of the Mississippi river, will serve to unite with our own park system that of St. Paul, thus creating a magnificent park system, which will be the finest in the United States. In order to secure this result it seems advisable that the means at the disposal of the park commissioners should for the present be used chiefly for the acquisition of the land yet necessary to it.

THE PUBLIC SCHOOLS.

The growth of our public schools is a source of great satisfaction to the community, and excites surprise among those who are familiar with the record it has made, but it has placed heavy and increasing responsibilities upon those who have the interests accompanying it in charge. Last June, two years ago, there was in this city 28 public schools, 292 teachers, and 14,192 pupils. Last June there were 39 schools, 406 teachers and 17,997 pupils. At present there are 45 schools with a probable enrollment, by the end of June next, of 20,000 pupils. The public school system, and its operation in this city are among the most thorough and effective in the country. The present administration of the schools is wisely conservative, but it is also progressive. No effort has been spared to secure the best and most approved agencies needed for success in every department. I call attention especially to manual training introduced upon recommendation of the present school superintendent, and taught at four schools, sewing and other branches of industrial training. Our four high schools show exceptional development. Commendable effort has been exerted by the board of education to provide school accommodations to meet the extraordinary demands which have been made upon them. Many new buildings and additions have been erected, but there is still urgent demand for more school facilities. Seven or eight new buildings should be erected at once, in order to provide seating capacity for pupils in crowded schools who are now permitted to attend only half a day, and for 2,000 additional pupils who may be expected to apply for admission during the year. Double sessions are now held in 10 different buildings, thus depriving large numbers of pupils in the primary grades of half the privileges which the schools should afford. I earnestly recommend that you take this important subject under consideration, to the end that some way may be found for procuring the money required to meet these pressing needs. Every child of school age in the city should have suitable school accommodations.

THE PUBLIC LIBRARY.

Closely allied with the subject of public schools, is our interest in public libraries, reading rooms, and associated facilities for general culture. In 1885 the legislature added a chapter to our city's charter which created the Library Board of the City of Minneapolis. The board was authorized to establish and maintain public libraries and reading rooms, galleries of art and museums for the use and benefit of the inhabitants of the city. To enable the board to realize the objects contemplated, the act creating it gave the board power to levy a yearly tax upon the property of the city, and to do whatever else might be found necessary to make the board thoroughly efficient. The act was indeed so liberal and comprehensive as to excite the admiration of librarians and trustees of public enterprises of a like character throughout the country.

After an authorized issue by the city of bonds for \$100,000, and private subscription for a like amount, a proper building site was purchased and the erection of the library begun. This building, which is now approaching completion, is admired by all, and will be, when finished, scarcely second to any other building erected for a like purpose in the United States. In accordance with the provisions of the charter, which contemplate, in addition to libraries and reading rooms, the maintenance of galleries of art and museums for the instruction and entertainment of our people, the library building was planned and is being built with these objects in view. The library board charter provided that the board might enter into association with other organizations owning libraries or museums, upon such terms as would best promote the objects for which it was created. Upon this authority the library board, early in its existence, entered into an agreement with the Athenæum of this city, whereby the Athenæum library, already a good one, and certain, because of its fine endowment, to become most valuable, will be freely thrown open to the public. The library board have already appropriated a large sum of money for the purchase of books. Many have been bought and are now being catalogued. The board had received, up to January 1st, 1889, \$234,494.97, and had expended \$186,084.53.

The building when completed will have cost something over \$200,000. The charter under which our library board is acting contemplates the maintenance of public libraries and reading rooms, not merely one central library, which, wherever located, would necessarily be inaccessible to a large part of our population. This provision of the charter has not been overlooked by the board. For the present, of necessity, it cannot be complied with. But it has always been the intention of the board, as soon as it can be done, to establish reading rooms and distributing libraries in various parts of the city, with arrangements so made that the books of the central library will be at the ready command of all our citizens, no matter how remote their

homes from the central building.

THE CITY'S RAILROAD POLICY.

Attention has been especially called recently by public discussion to the relations of the city and its railroads. This matter is one of so great importance to the welfare of the community that I am impelled to say a few words concerning it. A cordial co-operation of a community with these important factors in its development is always desirable. It appears to me, therefore, that in those improvements, made necessary by the operations of railroads in the city, which directly benefit both the roads and city, the city should in some measure share with the roads the expense required in making such improvements.

The proper division of expense is a matter of detail which could be decided upon as the separate cases were presented, but, as a directing principle, I am convinced that co-operation between the city and railroads, where mutual benefit is involved, is advisable, in order to reach the best prosperity of all interests concerned. I therefore commend this principle to you as ad-

vantageous to the city in your railway legislation.

MANUFACTURING INTERESTS.

Minneapolis has attained to a high place among manufacturing centers, and events indicate a yet more commanding position for the city in this direction.

Annual statistics have shown remarkable industrial gains for some time past. For the last year the estimated value of the products of our manufactures is at about \$80,000,000. Our commercial interests are very large, but the growth of the city has been advanced especially through the development of its manufactures. Our commanding industries are the production of flour and lumber; but other industries, notably those of agricultural implements, sash, doors and blinds, and furniture, are increasing with great rapidity. The encouragement of manufactures is thus made one of our privileges and duties, in devising measures for a larger prosperity for the city. Philadelphia, the largest manufacturing city in the country, has adopted a special policy, by means of which, chiefly, it has reached this eminence. Believing that its opportunity for growth lay mainly in the building up of its manufactures, it procured a statute from the Pennsylvania state legislature, by which the machinery in use within its limits was freed from taxation. The result has shown the wisdom of this act. The Philadelphia policy is therefore worth your consideration. Certainly the establishment and support of manufactures here should be generously encouraged as one of the best means to promote the city's further growth.

LABOR ORGANIZATIONS.

There are various other topics which naturally would find place in my inaugural address, but which, on account of limited time, I must pass by. There are questions of moral reform of great importance to the well being of the city which are so complex in their character and require so extended a discussion, that, under present circumstances, it is not advisable for me to attempt to deal with them. At a more convenient time I shall express what

judgment I have formed concerning them.

One phase of social development, however, is becoming of so great moment that a word concerning it in passing is in place. The relations of capital and labor are of the most intimate character. Both capital and labor are necessary to the welfare of society, and general progress cannot be secured without their harmony and co-operation. The rapid organization now going on of laboring men into societies, so far as I can see, is capable of being made of great service to these men, and to the interests of labor in general, while there is no reason why it should be in any way a source of division between laboring men and those who represent what is called capital. I cordially recognize the importance of these labor organizations, and recommend that their official expressions of opinion on public matters receive just attention with all other expressions of popular judgment.

CONCLUSION.

In conclusion, I wish simply to reiterate what I said in beginning this address, that we have been summoned by our fellow-citizens to do a work which has become one of exceptional difficulty, and to express the hope that we may assume our duties with a sincere determination to do whatever lies in our power to perform these duties so that the best interests of our city may be advanced. I rely upon you, and upon all the departments of the city's government, to co-operate with me in our common work.

Should we thus labor together, holding the duties of our high positions always above selfish or ignoble aims, the account of our stewardship, when rendered two years hence, will be one of which neither we nor our fellow-citizens need be ashamed, and which will doubtless show that we have been enabled to do somewhat to promote the welfare of Minneapolis, whose progress and prosperity have already given it a leading place among American cities.

E. C. BABB,

Mayor.

RESOLUTION

IN MEMORY OF DANIEL G. THOMPSON, LATE ALDERMAN OF THE EIGHTH WARD.

Resolved by the City Council of the City of Minneapolis:

Whereas, Death has removed from our midst an esteemed associate and friend in the person of Alderman Daniel G. Thompson, of the Eighth ward, we wish to place upon record some expression of our appreciation of him as a man and a public official; therefore,

Be it Resolved, That we do hereby express our sincere sorrow at the death of Alderman Thompson, feeling that in him the city had a faithful and conscientious representative and the community a member whose character and abilities gave promise of a most useful and honorable future.

In him we recognized such strongly marked traits of character; such high aims; such devotion to principle; such honesty of purpose, as to win our admiration and command our highest respect.

The expression used by him in his last speech in this chamber, "I should not do my duty to my constituents if I did not support this measure," is indicative of the motives which actuated the man, as duty was the great question with him.

We extend our sympathies to the friends and relatives of our departed colleague, realizing that a great personal loss has been sustained by those intimately associated with him in his lifetime; and the public has been deprived of the services of one who was conspicuous for his fidelity and rigid adherence to what he considered to be his highest duty.

Passed Aug. 20th, 1889.

E. M. JOHNSON,

President of the Council.

Attest:

CHAS. F. HANEY, City Clerk.

Approved Aug. 22d, 1889.

E. C. BABB, Mayor.

ANNUAL REPORT

OF THE

CITY COMPTROLLER

OF THE

City of Minneapolis

For the Year Ending December 31, 1889.

JOSHUA ROGERS, Deputy.

MINNEAPOLIS: HARRISON & SMITH, PRINTERS. 1890.

CITY COMPTROLLER'S DEPARTMENT.

 $\begin{array}{c} {\rm J.\ F.\ CALDERWOOD,} \\ {\it City\ Comptroller.} \end{array}$

JOSHUA ROGERS,

Deputy Comptroller.

COMPTROLLER'S REPORT.

To the Honorable City Council:

GENTLEMEN—In compliance with section 16, chapter 3, I herewith submit a financial statement of the various departments of the city, the several wards a financial statement of the various departments of the city, the several wards thereof, the board of education and the library board. In the compilation of this report I have grouped under appropriate subdivisions the various items that make the total expenditure of each department, thus giving the "kernel without the chaff." In many instances where I thought the items of special interest to the public I have given them in detail. You can better understand what a full itemized report would mean when I state that my office has countersigned and delivered during the twelve months ending Dec. 31, 1889—11,089 warrants on the city treasurer; the warrants in many instances covering several items. The aggregate amount of warrants drawn during the year is as follows:

School board		955,667.03
Library " Park "	 ••••••	900 40W MM
Total		DA 407 450 44

This does not necessarily signify that these various divisions have expended this amount of money, as warrants are necessary in the adjustment of funds as between the comptroller and the treasurer. We have eliminated the transfer of funds in this report, so that the debit of any particular fund shows only the disbursements, and the credit the net receipts. This we have done to avoid the possibility of the footings of the funds being misleading to anyone who did not take the trouble to analyze the account.

TOTAL RECEIPTS AND DISBURSEMENTS.

The following is the net receipts and disbursements on account of the various funds, including the various ward, park, library and school funds for the twelve months ending Dec. 31, 1889.

Disbursements.	
Current Expenses (Genl. Fund). Permanent Improvement Fund.	\$898,255.34 1.045,320.19
Impovements	1,030,020.10
Taxes refunded	
Taxes annulled	
Interest Daid	247,612.50
Interest Paid	247,612.50
Construction	219,094.40
Taxes annulled 36.540.01	
Taxes refunded. 14.826.79	
Refund of advances. 3,534.30	
Current expenses	
Thirteen Ward FundsStreet sprinkling and sidewalk	447,865.76
Labor and material\$260.019.87	
Taxes annulled	
Taxes refunded	
Library Board. School Board,	127,202.99 958,367.03
Running expenses. \$444,895.43	890,901.00
Improvements	
Notes paid	
(WARE DOWN From 3	and the same
City Park Fund	289,137.57
Loans paid.:	
m	
Total disbursements	\$4,293,155.86

Receipts.		
Library Fund		\$90,141.81
Subscription	\$27,095.00	
Taxes	31.111.91	
Interest, etc	852.09 22.75	
Sundries. Notes discounted	25,000.00	
Notes discounted	20,000.00	
School Fund		991,557.31
Notes discounted	302,624.99	
Taxes.	483,701.11	
Proceeds of bonds.	203,610.83	
Sundries	1,020.58	
General Fund		988,249.72
Taxes	659,778.72	
Licenses	266,170.47	,
Rents	3.186.67	
Light	500.04	,
Impounding	358.65 117.45	
City scales. Municipal court.	38,672.67	
Engineer's permits.	10,481.48	
City clerk.	6,799.70	
Sundries	2,183.87	
-		4 4 4 4 00W FF
Permanent Improvement Fund		1.144,087.57
Mill tax \$253,575.41 Proceeds of bonds. 428,100.58		
Sundries		
	684,090,49	
Special assessment taxes revolving		
Proceeds of bonds. 197,967.84	,	
Advances		
Sundries	450 002 00	
Water Works	459,997.08	267,177.65
Water receipts.	157 514 99	201,111.00
Taxes		
Advances	4.687.00	
Sundries	1,107.91	
Ostar Dowle Found		000 000 40
City Park Fund. Proceeds of bonds.	149 190 56	289,892.17
Taxes	96.188.47	
Taxes Proceeds of notes discounted	36,000.00	
Sundries	15,564.14	
Interest fund		241,345.47
Ward funds.		437,682.17
Total receipts		@4 450 199 07
		\$4,450,133.87
Recapitulation.		
Total receipts		\$4,450,133.87
Total disbursements.		4,293,155.86
Credit Balance Balance on hand Jan. 1, 1889		\$156,978.01
Balance on hand Jan. 1, 1889		206,462.80
Cash on hand Jan. 1, 1890.		0000 440 01
In the above schedule of expenditures is included \$228.27		\$363,440.81
III late above schedule of expenditures is included \$998.95	11 78 for	tayor an-

In the above schedule of expenditures is included \$228,279.78 for taxes annulled and paid by engineer's certificates; \$52.817.78 of which is for sewers, paving and curb and gutter; \$36,540.01 for water mains, and \$138,921.99 for sidewalk tax annulled.

In the above schedule of expenditures is also included \$84,886.92 taxes refunded, of which \$27,136.73 is for sewer, curb and gutter and paving tax, \$14,826.29 for water mains, \$42,923.90 sidewalk tax refunded.

GENERAL FUND.

The total disbursements on account of the general fund for all purposes for the twelve months ending December 31, 1889, is \$898,255.34. The total amount expended on account of the general fund in the various departments for which appropriations were made is \$866,362.87. The total amount expended outside of appropriations, \$31,892.47, as follows:

Local damages by suit		\$15.02
Legal damages without suit.		021.44
Bethany Home (part of fines collected under charter)	 	 1,464.12
Detilially Bolife (part of fines collected under charter)		0 200 00

\$4,800.58

Total amount expended under the "Contingent Fund Act" (which shall not exceed \$10,000 in any one year; each expenditure must be by resolution and require a three-fourths vote of the entire council), is \$8,391.20, as

Relief of Dakota sufferers	\$1,400.00
"G. A. R." Memorial day	175.00
Interest on note given for purchase of Soldiers' Home site	1,669.80
Street illumination during Exposition 1889	3,000.00
Entertainment of Pan American delegation	1,917.15
Entertainment of Montreal city council	229.25

\$8,391.20

Total amount expended under special acts of the legislature, \$7,605.25, as follows:

J. V. DeMott vs. Ninth ward	\$1,116.65
Vincent Reeves vs. Tenth ward	
Illuminating Nicollet avenue during Exposition of 1888	
Award for the apprehension of the murderers of Edward Tollefson	
Extra salary of City Clerk and salary of employes since May 1, 1889	1,348.70

Refund on plumbers' permits and expense of repairing streets for con-

The item of \$9,521.74 as shown by exhibit "A" as a disbursement, is not an expense, as the amount is covered by a deposit, which appears as a credit to the general fund.

APPROPRIATIONS.

As will be seen by exhibit "A," the total amount of the appropriations for the various departments on account of the general fund for the year ending March 1, 1890, is \$863,900. The total disbursements on account of the appropriations is \$723,492.37, leaving a balance unexpended \$140,407.63, which amount, if properly distributed among the various departments would be sufficient to carry the departments through the months of January and February to the beginning of the new appropriations, provided the ratio of expense would remain the same as it has been for the past twelve months.

OVERDRAFTS.

As will be seen by exhibit "A," roads and bridges and city assessor's department stands with an overdraft. The former of these accounts is entitled to a credit from the permanent improvement fund, and the latter has been advanced money from its appropriation of 1890, for the purpose of preparing a new set of plats for the assessments of 1890.

MAKING APPROPRIATIONS.

More care should be exercised by the council in considering the wants and necessities of the various departments so as not to impair the service of any department for want of funds, or force the department to ask for an over-draft, which is pernicious and in direct violation of the law. The permitting of any department to exceed its appropriation renders the action of the council which made the appropriation a farce. The council should do one of two things—either make the appropriation sufficient to meet the necessary demands of the department, and the comptroller keep the departments within their appropriations, or abolish the annual farce of making appropriations and let each department make a "grab bag" of the general fund of the city.

NO DEFICIENCY-A SURPLUS.

For the first time in eight years the general fund will usher in the first of March, 1890, with a surplus, providing the ratio of expense remains the same for January and February as it has been for the past twelve months.

The following are the deficiencies in the general fund since 1882:

Mar	ch 1,	'83,	Deficienc	y .		 		 					 	 		 		 				 \$33,424.0	96
6.6	1,	'84,	6.6			 		 		٠		 	 	 		 			 	 		 41,641.5	53
	1,	'85,	66			 		 					 	 		 			 	 		 37,532.8	51)
**	1,	'86,	4.			 		 				 	 	 		 		 	 	 		 35,721.8	51
	1.	200																				38,261.9	代)
	1,	,80	66			 	• •	 • •	٠.			 	 	 	٠.	 	• •	 	 	 		 39,307.8 93,933.5	50
23	4,9	100	(I	am	000	 ٠.					9		 			 						 30,300.	10

SINKING FUND.

On folio — will be found a copy of the act which creates and provides for

the increase of the sinking fund of the city for the redemption of all city bonds.

SECURITIES IN THE SINKING FUND.

There is now in the sinking fund \$535,358.74; \$417,000 of which is Minneapolis city bonds, and \$118,358.74 in certificates of deposit on the various banks of Minneapolis, drawing four or five per cent interest. See Exhibit "H."

CAN WE PAY OUR BONDED DEBT?

As to our ability to pay the present bonded debt of the city with the one (1) mill tax on the assessed valuation, I submit the following:

Providing the assessed valuation increase three per cent each year, (in the last eleven years it has increased on an average of 18 per cent each year,) which would increase the sinking fund in the same ratio, and deducting the bonds as they mature, and adding four per cent annual interest to the balance in the sinking fund, (the fund now earns over four per cent semi-annual interest,) the sinking fund will have after paying the present bonded indebtedness, a balance of \$3,085,815.50.

REGISTERING BONDS AND SECURITIES IN THE SINKING FUND.

I would recommend that the bonds and other securities which are now, or that may become, a part of the sinking fund, be registered in the name of the "Board of Sinking Fund Commissioners," and that their transfer be made only with the consent and signatures of the full board. This would relieve the treasurer of the board of sinking fund commissioners from personal liability, and insure greater protection to the city.

TOTAL BONDED DEBT.

The entire bonded debt of the city January 1, 1889, which includes bonds issued for all purposes was \$5,524,500. This amount has been increased during the year \$962,000, making the total bonded debt, January 1, 1890, \$6,486,500.

SCHOOL DISTRICT BONDS.

Seventy-two thousand dollars of the bonded debt increase for 1889, was for bonds issued by school districts 1, 5, 9, 93, 119 and 121, before they became a part of the city. At the time of the passage of the acts in which the city assumed the indebtedness and these districts became a part of the city, no definite statement of indebtedness was filed with or assumed by the city, and it was not until I called your attention to the fact, and your action of November 27, that a complete schedule was filed and the indebtedness became a matter of record on the books of the city.

BONDS PAID.

The following bonds were paid during the twelve months ending Dec. 31, 1889:

Date. May 1, 1874 July 1, 1872 Oct. 9, 1880	Issued for. Fire Dep't. Falls Imp. School Dist. 119	Nos. 41–64 170–199 9–10	Each bond. \$500 500 500	Total \$12,000 15,000 1,000	Time, yrs. 30 30 9	Rate, 8 per cent 8 " "	When due. May 1, '89 July 1, '89 Oct. 9, '89
Tots	al			000 992			

BONDS CANCELLED.

The following bonds were cancelled during the twelve months ending December 31, 1889.

Date. July 1, 1884.	Purpose. Parks.	Nos. 452-555.	years.	Rate, per cent. $4\frac{1}{2}$.	Each bond. \$1,000.	Total. \$32,000.
			BONDS ISSUED			

. 395,000.00
200,000.00
150,000.00
175,000.00

Franklin avenue bridge......

otal

PREMIUM ON BONDS.

The average premium received on the sale of bonds for the twelve months ending December 31, 1889, is 92-100 of one per cent.

Issue of February 1, selling at a discount of 1.474-1000 per cent. Issue of June 20, selling at a premium of 2.639-1000 per cent.

As will be seen from Exhibit "N," the price received for Minneapolis 4 per cent 30 year bonds improved with each succeeding sale, until the premium of 2.639-1000 per cent. was received, being the highest premium ever received for Minneapolis bonds, and the highest price ever received up to the date of last sale for municipal bonds in the northwest.

P. S.—The issue of January 15th, 1890, \$205,000, sold for a premium of 3.799 per cent, the highest premium ever paid for any four per cent, bonds in

the northwest.

REVOLVING FUND BONDS.

The permanent improvement revolving fund bonds should not be considered as a liability, or if they are so considered, there should be included in our list of assets a corresponding amount, as these bonds are issued for the deferred payments due on the sewer, curb and paving tax, and are secured by the unpaid tax which makes the bonds equal to or better than a first mortgage. All other bonds should be considered as liabilities when the total value of the purpose for which they are issued is considered as an asset.

REVOLVING FUND BONDS SHOULD BE DEDUCTED FROM BONDED DEBT.

The bonds issued for the deferred payments due from property benefited under the revolving fund act, should be deducted from the bonded indebtedness in considering the 5 per cent. limit, as the issue of these bonds is in the nature of a loan to the abutting property, and in the adjustment of the revolving fund account, when the deferred payments have been collected, there should be in the fund a sum which, when credited to the sinking fund, would be sufficient to pay all bonds issued under that act.

DISCONTINUE THE ISSUE OF REVOLVING FUND BONDS.

. The city is restricted in the issue of bonds to a 5 per cent. limit of its assessed valuation. The substantial maintenance of this provision is not only declared to be a part of the contract with the present bondholders, but it is a safeguard against the reckless and extravagant issue of bonds. It is this 5 per cent. restriction that places Minneapolis bonds at the head of the list of all municipal securities west of Detroit, Mich.

I would recommend the discontinuance of the issue of 30-year bonds on account of the revolving fund, and in lieu thereof the issuance of certificates with five coupons attached, one of which shall be payable each year from the one-fifth collected on account of the revolving fund. These certificates would be secured by the tax due, which would make them better than a first mortgage, and the city would be relieved from any liability. This arrange-

ment I would recommend for two principal reasons:

First. The city will need all the latitude possible under the 5 per cent. restriction (in view of the fact that we have nearly reached the limit to issue bonds), to pay the city's part of the improvements that are necessary to keep pace with the constantly increasing demands of a rapidly growing city.

Second. In the manner in which the account is kept it is as unjust as it is unnecessary to issue a 30-year 4 per cent. bond for deferred payments which are fully paid with interest in five years.

INCREASE IN BONDED DEBT.

Exhibit "M" shows the per cent. of increase in the bonded debt as compared with the per cent. of increase in the assessed valuation.

1881—Bonded debt increase, 4 1-10 per cent.; ass'd val. increase, 4 per cent.
1884— " " " 27½ " " " " " " 37 4-5 per cent.
1889— " " 7-10 of 1 per cent.

INTEREST ON THE BONDED DEBT.

The outstanding bonds draw various rates of interest as shown in exhibit "L," the highest being 10 per cent., the lowest 4 per cent., and the average rate of interest on the entire bonded debt of the city is 4.73 per cent.

BOND MARGIN.

The present bond margin on which we can issue bonds for all purposes before we will have reached our limit, is five per cent of the assessed valuation plus the amount of the sinking fund, \$535,358.74, which makes the present margin \$403,949.79. This margin will be increased July 1st, 1890, by the amount collected on account of the sinking fund, about \$125,000, together with the interest accruing on the sinking fund, about \$25,000; also 5 per cent. on the 10 per cent. probable increase on the assessed valuation; all of which, added to the present margin of \$403,949.79, will make a total margin for the 18 months beginning January 1st, 1890, of \$603,949.79.

ISSUE OF CITY BONDS.

The issue of city bonds for all purposes should emanate from one body. The plan of subdividing the financial department of the city to such a degree as to give any one board or commission power to issue city bonds at pleasure is a bad precedent, and is liable to prove a source of extravagance. While the creation of the various boards leads to efficiency, yet there ought to be an absolute central responsibility in the issue of bonds, and the increase of the city's indebtedness.

TAXES-SPECIAL ASSESSMENTS.

The city council, who is the supposed guardian of the tax-payer's interests, should lose no time in correcting the present system of making and collecting special assessments. The evil is each year growing, and it cannot but be that a day of reckoning will come when the tax-payers of this city will demand a reason for the continued operation of a system which.

First. In many cases deprives them of the use of hard-earned money paid

in good faith, and arbitrarily, for what they never receive.

Second. A system that compels the tax-payer to pay in excess of the cost of the improvement.

Third. A system which creates "rebates" and makes their collection prof-

itable, at the expense of the tax-payer.

Fourth A system that provides no method for the return of money collected in excess of the cost, or for improvements annulled, and as a result there is due property owners to-day thousands of dollars for improvements which have never been made, or, if made, the assessment was in excess of the cost.

Fifth. A system that deprives the city of the use of tax collected from the time of collection to the time of settlement with the county treasurer.

Sixth. A system that forfeits to the proper funds the penalties which

amount to thousands of dollars each year.

Seventh. A system that entails a large amount of expense and unnecessary work on the city, and divides the keeping of the accounts between the city and county in such a manner that we have no check upon the county, or system of keeping the accounts.

Eighth. A system that necessitates the ordering of public improvements before the council can determine the demand or necessity for the improvements, as all improvements for the following year under the present system

must be ordered before the 20th day of August.

A system that permits and compels annullments at a great ex-Ninth. pense to the city and an annoyance, inconvenience and a loss to the taxpayers.

A system that has a record for 1889, of \$228,279.78, for taxes Tenth.

annulled, and \$84,886.92, taxes refunded.

Eleventh. A system that does not enable the city to determine the amount

of tax levied and the amount and who are delinquent.

Twelfth. A system that makes the payment of the tax under the "Revolving Fund Act" arbitrarily payable in fifths, instead of allowing the taxpayer the privilege of paying the full assessment at the time of the first payment, as many would prefer to do.

Thirteenth. A system that makes the keeping of the "Revolving Fund Account," as it should be for the protection of the bonds issued under the

act an impossibility.

CITY COLLECT ITS SPECIAL ASSESSMENTS.

I would recommend that such legislation be secured as will enable the city to collect the taxes for all special improvements for the following principal reasons:

First. The city would have the use of the money as soon as collected. Second. The city would have the benefit of all penalties accruing by reason

of delinquency in the payment of taxes.

Third. The assessments could be levied at such a time as would enable the city council to base the assessments upon the actual cost of the work, as under the present system it is necessary to assess an amount in excess of the cost, thereby causing a rebate, a portion of which only under the present plan can be returned to the property owner, and that is optional with the council.

Fourth. There is no provision made under the present system for the return of any rebate, and the necessity for such a provision would be

obviated.

Fifth. The city could by collecting its special asssessments so regulate the time of making the assessments as to enable those in authority to determine carefully what improvements are needed and to so regulate the assessment rolls that there would be no annullments.

Sixth. We could determine accurately the total amount of the tax levied, whether the assessments have been regularly and properly entered, also the

amount of, and who are delinquent.

Seventh. We could keep our own accounts, prove the correctness of the assessment rolls and adjust to the satisfaction of the taxpayers any differences

that might arise.

Eighth. The additional expense of the city collecting its own special assessments would be nominal, as there is now a large expense connected with the city engineer's department in making a partial transcript of the county auditor's assessment rolls to assist the city engineer in the adjustment of assessments.

WARD FUNDS-SIDEWALKS.

The total sidewalk assessments of 1888 for 1889, was \$191,992.66. The total tax collected was \$172,751.41, of which \$138,921.99 was paid in engineer certificates for tax annulled. Seventy-two per cent. of the tax levied was annulled, and 81 per cent. of the tax paid was paid in engineer certificates, which means that 72 per cent. of the expense in making these assessments is a loss to the tax-payers—not only a loss, but an inconvenience and annoyance to those who received their certificates of annulment. There is a large percentage of people, whose sidewalks have been annulled, who have paid their taxes and have received no rebate.

The question now presents itself, what is the occasion of these wholesale annulments? It is the fault of the present system of making assessments, in permitting assessments being made for sidewalks when the streets are not graded, and the street fund is not sufficient to grade them. If the streets were graded before the sidewalks were ordered there would be no necessity for the present amount of annulments. Section 16, chapter 8, of the city

charter, reads as follows:

"It shall be the duty of the city council, before ordering the construction of any new sidewalk, to cause the ground on which it is built to be properly

graded."

An incentive in the past to the wholesale and promiscuous ordering of sidewalks has been to create a surplus, and affording the opportunity of the pernicious practice of transferring money from the sidewalk fund to the street fund, thus enabling the ward to expend in street work an amount in excess of the amount raised by mill tax.

The following is a list of the insolvent sidewalk funds, and the amount

that the liabilities are in excess of their assets January 1, 1890:

First ward	. \$1,965,44
Second ward	. 3,056,92
Third ward	. 2,530.30
Fourth ward	
Fifth ward.	4,052.72
Eighth ward. Eleventh ward.	1,614.18
Twelfth ward	1,814,06

What I mean by the above list of "insolvent sidewalk funds" is this: If the above specified wards were to refund the tax unrefunded, or lay the sidewalks that have been ordered, paid for and not annulled, they would be short the amounts above specified.

There are three principal reasons for the cause of this deficiency.

First. The lack of system in making the assessments and properly checking them.

Second. Failure of street commissioners to report for assessment the repairs made on sidewalks.

Third. The total loss of penalties in the tax refundments.

STREET FUNDS.

I beg leave to call your attention to the practice of property owners advancing money to ward funds for the purpose of doing street grading. By this practice large property owners are able to secure the improvement of streets in their vicinity in advance of their less opulent neighbor. This practice is contrary to the charter—which says, that the wards have no authority to expend any more money for the purpose named or for any other purpose, in any one year, than that authorized to be raised by taxation on the taxable property of the ward. This common practice has led to the pledging of ward funds in advance from year to year until it often happens that the newly elected aldermen find the ward funds of their administration have been absorbed by money advanced for improvements during their predecessor's term.

This illegal and pernicious practice will have to stop and those who have been advancing money for improvements to their property will have difficulty in being reimbursed, as the charter and the decisions of the court will abso-

lutely govern my actions in this matter.

AUDITING CLAIMS.

The city charter, section 18, chapter 11, provides "that all claims and demands against the city before the same shall be allowed by the city council, and all claims against the board of education and the library board of the city of Minneapolis, before same shall be allowed by said board, shall be audited and adjusted by the City Comptroller." Under the present system this is, has been, and always will be a farce, and claims against the city have not been, are not being, nor can they ever be under the present system, properly examined. Thousands of dollars of claims are paid every month which for the want of system have not been properly examined. It has been the pleasure of your honorable body to approve and order paid, claims which have never seen the inside of the comptroller's office.

Think of the "Committee on Claims" passing upon a budget of 900 claims which they had never seen before, amounting to \$190,000, in one and a half hours, and all received their approval as being correct. Imagine the city comptroller, in connection with his regular duties, examining, auditing, adjusting, classifying and entering on a schedule 900 promiscuous claims from a bill for postage stamps to a "junketing trip" east, amounting in all to

\$190,000, and doing it all in twelve hours.

I would recommend that every claim against the city be referred to the head of the department for which the purchase was made, and by him certifled to as being correct, in proper form on the bill, and by him then referred to the committee in charge of the department for their approval. Then, they should be submitted to the city comptroller, and by him submitted to the committee on claims, who should not recognize any bill without the proper endorsements as above, with the right to reject any claim if in their judgment there is any irregularity. The custom of presenting bills directly to the council, and by them being ordered paid before they have been passed upon by the proper committee, is pernicious.

AUDITOR'S JOURNAL.

The heads of the various departments of the city should be required to keep an auditing journal, in which all bills approved by the committee should be entered, giving the name, date of bill, description, amount, when approved and when ordered paid by the council, and distribution of the

amount to the proper account. These journals can be introduced at a small expense, and kept with but little trouble, and would prevent the possibility of approval and payment of duplicate bills, and enable the departments to realize the amounts they are expending, and to so regulate their expenditures as to keep within their appropriations.

CITY BOOK-KEEPING.

Under the charter the city has a system—if system it may be called—of accounting, by which the comptroller and his assistant are supposed to keep a record of the public business, and protect the interests of the tax-payers of the city. This system no doubt served its purpose well in 1867, when Minneapolis first assumed the responsibility of a full-grown municipality. This system under present conditions sets at defiance the rudimentary principles of book-keeping, and as it now exists is a standing temptation to huge financial irregularities and blunders, and a source of annoyance, inconven-

ience and unnecessary expense to many of our tax-payers.

To substantiate my statements I wish to call your attention to the present methods of making our assessments for special improvements. These special assessment rolls are prepared by the city engineer, and after their adoption by your honorable body, they are transmitted to the county auditor without the city retaining even a memorandum of the amount. These assessment rolls may or may not be received by the county auditor; they may or may not be correctly spread upon the assessment rolls. We simply assume that they are correctly made out, all received by the county auditor, and by him correctly spread upon the assessment books. There is, under the present system, practically no check upon the city engineer or the county officials, and thus errors arise as the natural outgrowth of the lack of system on the part of the city.

After the county auditor has completed his assessment books, he transmits to the city comptroller a statement showing the aggregate amount assessed for each fund, and with these several amounts we charge the county. While we have every confidence in the integrity, honesty and capability of our county auditor, yet "to err is human," and the city should be in position to

check these figures.

I am quite confident that no member of this honorable body would permit his private business to be thus conducted: much less should he permit the continuance of a system that is productive of evil consequences. I have shown that errors are possible and do occur by the report of the Dual City-Collection Bureau.

DELINQUENT TAXES.

I beg leave to call your attention to Exhibit F, folio 49, showing the year and the amount of delinquent taxes. The following is the total amount of tax delinquent:

Board of education, 1888 and prior years Library board, 1888 """ ""	
	\$387,743.32

Under our present system of making assessments and keeping the accounts between the city and the county, we have no method by which we can determine the accuracy of the amount reported by the county auditor as delinquent; neither can we determine the distribution of the delinquent tax.

March 15th, 1889, I recommended that the amount reported as being delinquent by the county auditor be verified. My communication was, with a degree of reluctance, reported upon favorably by the committee. The work was begun, but owing to the fact that the progress made was slow and expensive, the work was abandoned before completion. I would recommend that the work be taken up and finished at an early date, that we can determine what portion of the amount delinquent is worthless and the amount that is good: see to it that prompt action is taken to enforce the collection.

ASSETS AND LIABILITIES.

Schedules A, B, C, D, E, F, G, H, and I, show in detail the property of the city and the various boards thereof, a summary of which is as follows:

City property. Library board, building and real estate. School board, buildings and real estate. Park board, parks and parkways. Court house.	3,918,400.00
Miscellaneous personal property	
Total	\$15,161,426.37

To the above list of city assets should be added the bonds issued on account of the revolving fund. These bonds amount to \$505,000, and are covered by the deferred payments due under the revolving fund act. Deducting from the total value of city property the total bonded debt we have a balance of \$9,179,926.37.

SIDEWALK FUNDS.

Another evidence of the lack of system is the present bankrupt condition of the sidewalk funds.

THE REVOLVING FUND

is in a precarious condition, and as it stands to-day has not a sufficient credit with which to pay its outstanding bonds, simply because it has not received its proper credits, through a lack of system.

ENGINEER CERTIFICATES.

We have every confidence in the gentlemen connected with the city engineer's department, who issue engineer certificates for taxes annulled and certify as to tax rebates. During 1889 they have issued nearly a quarter of a million in engineer certificates and certified to ninety thousand in tax rebates. These engineer certificates are accepted by the county treasurer in lieu of money in the payment of taxes, and they are accepted by the city treasurer in lieu of money in the tax settlement from the county. There is no system in vogue, neither has there been any to determine whether these certificates have been regularly and properly issued. I beg leave to call your attention to the amount of detail incidental to the drawing, receipting for, countersigning and paying a warrant for any claim against the city, but in the matter of the issuance of one quarter of a million dollars in engineer certificates and certificates for tax rebates, the whole responsibility is left in the hands of one man, with no system for verifying the correctness or regularity of his work.

IN CONCLUSION.

I beg leave to say that I have not always agreed with a number of your honorable body in questions that came within the jurisdiction of my office, and it is not reasonable to expect that we should; but if we are frank and sincere with one another, honest with ourselves and our constituents, we may differ widely on questions and still maintain that amicable intercourse and proper regard for the feelings of others which constitutes an essential and important factor in municipal as well as individual prosperity.

If my report of the city finances, together with any statements or recommendations that I may have made, shall in any way aid your honorable body in your future labors and deliberations, or throw any light on the problems of the city's finances which are continually presenting themselves to you for solution, then the writer will feel abundantly repaid for any expenditure of time and thought required in the performance of what must otherwise become a dry and perfunctory task. I wish to express to your honorable body, to my able deputy, to those connected with the various departments of the city, my sincere thanks for the courtesies extended during the past year, and for a co-operation which has materially lightened the cares and facilitated the work of the comptroller's office.

Respectfully submitted,

JOHN F. CALDERWOOD, City Comptroller.

CITY PROPERTY.

INCLUDING PROPERTY UNDER THE CONTROL OF THE VARIOUS BOARDS OF THE CITY.

In the various items of city property, and the property of the various boards, is included the present cash value of the land and the original cost of the buildings and improvements.

Schedule A.		
PAVEMENT— Cedar block Granite block. Boulder	289,492.88	\$867,700.59
CURB AND GUTTERS		373,446.43 2,446,552.10
Schedule B.		
BRIDGES OVER MISSISSIPPI RIVER-	Ø1 49 490 09	
Franklin avenue	106,367.48	
Tenth avenue south. Suspension.	160,000.00	
Steel arch Stone arch over east channel	185,161.81	
Plymouth avenue	68,500.00	
Twentieth avenue north. Hennepin Island, east channel	109,110.03	
	4,034.10	\$1,049,454.15
Bridges over Bassett's Creek— First street north	\$6,000.00	
Second street north. Washington avenue north.	6,922.49	
Third street north	10,633.63	
Fourth street north	1,974.12	
Lyndale avenue Fifth avenue north	6,149.68 1,942.00	
Sixth avenue north	2,945.74	
Tenth avenue north. Western avenue, No. 1	6,899.54 1,980.39	
Western avenue, No. 1. Western avenue, No. 2, Upton avenue. Cedar Lake road.	1,311.07 9.233.75	
Eighth avenue north	9,233.75 224.00	072.044 72
SUNDRY BRIDGES—		\$72,941.70
University avenue, over University creek. Fourth street S. E., over University creek. Seventh avenue S. E., over University creek.	\$1,246.52 7,309.70 1,370.65	
Seventh avenue S. E., over University creek. Lyndale avenue, over Minnehaha creek.	1,370.65 1,000,00	
Minnehaha avenue, over Minnehaha creek. Chicago avenue, over Minnehaha creek.	500.00	
Chicago avenue, over Minnenana creek. Lyndale avenue, over Shingle creek. Sixth avenue south, over Mill Co.'s canal.	500.00 1,899.27	
Sixth avenue south, over Mill Co.'s canal	10,004.52	\$23 830.66
VIADUCTS AND BRIDGES OVER RAILWAY TRACKS—	00° 000 04	φ.29 e90.00
Washington avenue viaduct. Plymouth avenue viaduct. Holden street and Western avenue bridge	6.142.07	
Holden street and Western avenue bridge	2,739.21 34,727.51	
29 22 22 23 24 25 25 25 25 25 25 25 25		879,511.43
Schedule C.	4	
BOARD OF EDUCATION.		
AdamsLand\$50,000 Buildings25,000	Total	### 000
BancroftLand		
Bremer Land 6.300	Total	2,1000
	Total	31,300
Buildings 500	Total	1,900
Baildings 25,000	Total	39,000
Clay Land 20,000 Buildings 20,000	Total	40,000
Caracter and a contract of the	Total	
		0.15000

*				
Corcoran	Land	8,000 18,000	Total	26,000
Douglas	LandBuildings	18,000 5,000	Total	23,000
Emerson	LandBuildings	28,700 30,000	Total	58,700
Everett	Land	9,000 25,000	Total	34,000
Franklin		33,000 20,000	Total	53,000
Garfield	LandBuildings	20,000 20,000	Total	40,000
Greeley	Land. Buildings.	12,000 40,000	Total	52,000
Grant	LandBuildings	10,000 33,000	Total	43,000
Hamilton	Land. Buildings.	3,000 12,000	Total	15,000
Hamilton (old)	LandBuildings	500 200	Total	700
Harrison	.Land	9,000 20,000	Total	29,000
Hawthorne	BuildingsLand	16,000	Total	36,000
High (Central)	BuildingsLand.	20,000 90,000	Total	220,000
Holland	.Land	130,000 15,000		
Horace Mann	BuildingsLand	30,000 12,500	Total	45,000
Humboldt	Land	30,000 8,000	Total	42,500
Irving	BuildingsLand	20,000 21,000	Total	28,000
Jackson	BuildingsLand	20,000 17,500	Total	41,000
Jefferson	Buildings	1,000 65,000	Total	18,500
Lincoln	Land	30,000 60,000	Total	95,000
Longfellow	Land	1,000 7,000	Total	61,000
Lowell	Buildings	30,000 10,500	Total	37,000
Lyndale	Buildings	30,000 10,000	Total	40,500
Madison	Buildings.	20,000 30,900	Total	30,000
Marcy	Buildings	45,000 30,000	Total	75,000
Minnehaha	Buildings	10,000 3,000	Total	40,000
Minnehaha (old)	Buildings.	18,000 1,000	Total	21,000
Monroe	Buildings	500 18,000	Total	1,500
Motley	Buildings	35,000 15,000	Total	53,000
North Side High	Ruildings	30,000 12,500	Total	45,000
Peabody	Buildings	50,000 10,000	Total	62,500
Prescott	Ruildings	25,000 7,000	Total	_35,000
Seward	Buildings	20,000 15,000	Total	27,000
Sumner	Buildings	36,000 30,000	Total	51,000
Tuttle	Buildings	20,000 4,500	Total	50,000
Washington	Ruildings	1,500	Total	6,000
Webster	Rillfames	52,000 60,000	Total	112,000
Whittier	Buildings	18,000 25,000	Total	43,000
Winthrop		33,000 30,000	Total	63,000
Old district 80	Land	65,000 20,000	Total	85,000
Ou district a	Land	1,500 1,000	Total	1,500
Chu district fal	Lang	200 3,600	Total	1,200
	Buildings	500	Total	4,100
eighth St. and Park Ave Vacant land Marshall St. N.E., Vacant land (just acquired)	Land	1,200 1,000		1,200
are mine (just acquired)	accept	12,000	Matal as	12,000
			Total\$2	2,099,300

Schedule D.

PARKS, PARKWAYS AND BOULEVARDS.

Central Park, 33.50 acres or 134 lots at. Elliot Park, 4 acres or 20 lots at Franklin Park, 1.54 acres or 10 lots at. Hawthorn Park, 1.13 acres or 8 lots at. Murphy Park, 3.33 acres or 20 lots at. Murphy Park, 3.33 acres or 140 lots at. Prospect Park, 20.52 acres or 104 lots at. Prospect Park, 19.78 acres or 120 lots at. First Ward Park, 19.78 acres or 120 lots at. First Ward Park, 10 lots at. East Side Boulevard, 40 lots at. Thirty-Fourth St. Boulevard 2 lots at Minor Parks, 25 lots at. Lake of the Isles, 60 acres at. Lovell & Barns Park, 5 acres or 20 lots at. Washburn Park, 10.08 acres at. Saratoga Springs, 64 acres at. Minnehaha State Park, 173 acres at. Minnehaha Boulevard, 40 acres at. Central Park Boulevard, 50 feet wide, 35 miles, 13 lots. Dean Boulevard, 150 feet wide, 1.10 miles, 116 lots Hennepin Boulevard, 88 feet wide, 1.38 miles, 106 lots. Kenwood Boulevard, 200 feet wide, 1.88 miles, 147 lots. Stenson Boulevard, 200 feet wide, 1 mile, 140 lots. Lyndale Boulevard, 66 feet wide, 1.80 miles, 84 lots (66 feet lots)	500 per acre 7,500 each,	50,000 e, 12,000 e, 96,000 e 207,600
Stenson Boulevard, 200 feet wide, 1 mile, 140 lots	600 each, 2,500 each,	84,000 210,000
Total		\$3,918,400
Schedule E.		,,,,,,,,,,,,
FIRE DEPARTMENT.		
"A"—2-story brick, 1-story addition	\$7,787.68 1,517.75	
and 117 feet on 3rd ave. north	22,000,00 \$4,970.00 2,000.00 17,800.00	\$31,305,43
		\$24,770,00
"C"—2-story brick, wood addition for stable 2-story brick addition, new Lots 16, 17, 18, 19, 20, 21, block 7, E. D.	\$6,000.00 8,248.67 26,400.00	
"D"—2-story stone Lot 1, block 11, Orth & Hetchman's addition	\$2,000.00 1,200.00	\$3,200.00
"E"—2-story brick Addition to building Part of lot 8, block 63.	\$7,500.00 1,500.00 38,500.00	847,500.00
"F"—2-story brick, old Lot "G," sub-division of lots 1 and 2, block 10	\$4,965.00 3,500.00	\$8,465,00
"F"—2-story brick, new Lot 7, blk. 10, Brown's sub-div. of Case & Moore's addition	\$9,927.84 5,500.00	\$15,427.84
"G"—2-story brick Improvements Lot 12, block 14, Atwater's addition	\$9,039.00 1,784.00 8,200.00	819,023.00
"H"—2-story brick 2-story brick on rear for repair shop Lot 6, block 19, Snyder & Cole's add., 3rd ave. S. and 12th st	\$9,063.74 2,888.00 13,750.00	
"I"—2-story brick. 2-story wood, veterinary infirmary. Lot 5, block 1, O. D. & O. R.'s addition.	\$9,887.41 1,107.90 5,600.00	825,701.74
"J"—2-story briek, 1 story addition 10x16	\$9,611.23 3,500.00	816,595.31
"K"-2-story brick Lot -, block -, Seventh ave. S. E. and Eighth street	\$8,974.00 4,500.00	\$13,111.23 \$13,474.00
"L"—2-story brick Lot 3, block 7, Oak Lake addition	\$7,325.00 4,500.00	\$11,825.00
"M"—2-story brick Improvements Lots H and Is. block 7, Sibley's addition to St. Anthony, Sum-	\$6,797.65 1,087.50	
mer and Jackson street	3,500,00	\$11,385.15

"N"-2-story brick	\$6,797.65 1,087.50	
Improvements Lot 16, block 16, Gilpatrick's addition, Seventeenth avenue south, between Twenty-fifth and Twenty-sixth streets	1,800.00	00 005 45
"O"-2-story brick	\$7,598.33	\$9,685.15
Improvements	1,115.00 3,000.00	\$11,713.33
"P"-Brick building	\$7,998.00 973.96	Ψ11,110.00
Improvements	1,800.00	040 WW4 00
HEAD QUARTERS FIRE DEPARTMENT— Lot 10, block 82, town of Minneapolis	\$33,000.00	\$10,771.96
Improvements Building to be erected on Fourth street, between Hennepin and First avenues No.	15.84	\$33,015.84
NEW LOT—		
Lot 1, block 10, Mabin, White & L.'s addition, Fifth avenue N. and James avenue		\$1,400.00
' TotalRECAPITULATION.		\$349,018.65
Cost of buildings		\$141,987.10 7,581.55
Cost of improvements. Present value of real estate.		199,450.00
Schedule F.		\$349,018.65
WATER WORKS.	,	
		\$1,669,089.86
Street mains, hydrants and valves. Pump house No. 1, steam plant, intake, wheel pits.etc Pump house No. 2 Pump house No. 3, pumps, electric plant, intake real estate, boilers, etc	. .	191,434.57 88,737.86
real estate, boilers, etc		208,965.75
Distribution pipes (west side pump house). Tunnel (west side).	· · · · · · · · · · · · · · · · · · ·	9,487.02 22,000.00
Tunnel (east side)		22,000.00 13,318.00 13,000.00
Pump No. 2, " " " " " " " " " " " " " " " " " "		6,000.00 7,000.00
Pump No. 4, " " " " Pump No. 5, " " "		7,000.00 7,000.00 10,000.00
Distribution pipes (west side pump house). Tunnel (west side). Tunnel (east side). Pump No. 1, (west side pump house No. 1). Pump No. 2, Pump No. 3, Pump No. 4, Pump No. 5. Pump No. 6, Pump No. 6, Pump No. 7, (east side pump house No. 2). Material on hand, pipe, lead, hydrants, etc.		12,724.51 $12,504.00$
Material on hand, pipe, lead, hydrants, etc		18,016.00
Schedule G.		\$2,289,277.57
MISCELLANEOUS PROPERTY.		
Public Library— For the land	\$91,700,00	
Building	228,954.01	\$320,654.01
Police Department— Central Lockup	\$27,778.86	
Central Lockup. Rear 56x60, lot 7, and part of lot 8, block No. 38, Minneapolis	22,000.00	\$49,778.86
Southerly 100 feet, lot 10, block 178, Minneapolis. Building (police stable)	\$5,000.00 960.00	
Lot 14, block No. 34, Case and others addition to Minneapolis		\$5,960.00 2,500.00
Improvements in basement of Scandia Bank for police station Improvements 5th precinct station. Blaisdell and 28th street		4,671.50 1,000.00
CITY HALL -		\$63,910.36
Building and improvements. Lot No. 22, Public square	\$56,121.85 200,000.00	
QUARANTINE HOSPITAL—		\$256,121.85
Buildings and improvements	\$2,500.00 5,707.00	
Work House-		\$8,207.00
60 acres of land at \$1.250 per acre. Buildings and improvements.	\$75,000.00 106,189,26	
NEW CITY HALL		\$181,189.26
*Cost of improvements to date Lots 1, 2, 9, 10, ½ of 3 and 8, block 77, town of Minneapolis	\$250,000.00 300,000,00	
*This item is the amount of the city series of \$750,000 in bonds tha		\$550,000.00
the court house commissioners.	chave beef	denvered

\$14,949,515.76 211,910.62

Total.....\$15,161,426.38

Schedule H.

MISCELLANEOUS PERSONAL PROPERTY

MISCELLANEOUS PERSONAL PROPERTY.		
Office fixtures, etc	\$10,000.00 10,000.00 5,000.00 139,775.00 47,135.62	\$211,910.62
Schedule I.		
RECAPITULATION.		
Granite block pavement. Boulder block pavement. Curb and gutter. Sewers and sewer tunnels. Bridges over Mississippi river. Bridges over Bassett's creek. Sundry bridges. Viaducts and bridges over railroad tracks. Police department—real estate and buildings. City hall and site. Quarantine hospital—real estate and buildings. Work house—real estate and buildings. Fire department—real estate and improvements	573,451,36 289,492,88 4,756,35 373,446,43 446,552,10 049,454,15 72,941,70 23,830,66 63,910,36 63,910,36 58,207,00 181,189,26 349,018,65 289,277,57	\$8,061,161.75
Library board—building and real estate. School board—buildings and real estate. Park board—parks, parkways and boulevards. Court house and city hall commission—real estate and improvements.		320,654.01 2,099,300.00 3,918,400.00 550,000.00

LEDGER'S

Miscellaneous personal property.....

Trial Balances, December 31, 1889.

BOOKS OF CITY OF MINNEAPOLIS, BOARD OF EDUCATION AND LIBRARY BOARD.

City of Minneapolis, Trial Balance, January 1st, 1890.

E. H. Moulton, city treasurer	Debit. \$354,936,64	Credit.
General fund	, 4004,000,0±	\$134,786.89
Permanent improvement fund		74.680.81
Water-works fund		67.341.59
Permanent improvement revolving fund	44,398,47	01,011100
City park fund	,	3,494.36
Sinking fund		535,358,74
Board of sinking fund commissioners	535,358.74	
1st ward street fund		233.99
1st " sidewalk fund		54.02
ist sprinkling	.21	
and street		566.19
znu sidewaik		96.11
and sprinking		848.22
3rd " street "	W40.04	4,332.77
2nd " caninkling "	748,91	0.004.00
4th " street "	4 4 500 00	2,261.62
4th " sidewalk "	4,157.06	0.445.00
4th " sprinkling "		2,415.09
And Sprinking		1.560.76

5th	ward	street	func	1	3,061,54
5th	+4	sidewalk		718.7	942.82
5th 6th		sprinkling street	5		341.99
6th	66	sidewalk	4.6		2,245.13
6th	6.6	sprinkling	Dr 66		512.18
7th	66	street	- 66	156.73	2,042.13
7th 7th	66	sidewalk			37.00
8th	6.6	street	s, "	417.6	
8th	66	sidewalk	6.6		3,517.08
8th	44	sprinkling	g ''		2,261.99 1,293.50
9th 9th	44	street	16		1,412.44
9th	6.6	sprinkling	g 44		336.70
10th	66	street	66		305.04
10th	66	sidewalk	m 66		$138.88 \\ 16.72$
10th 11th	66	sprinkling	5		344.04
11th	44	sidewalk	6.6	593.43	
11th	46	sprinkling	g "		113.60
12th	66	street		97.8	442.18
12th 13th	66	sidewalk	66	34.0	588.18
13th	66	sidewalk	6.6		591.90
Inte	rest	fund			60,121.48
War	rant	account	rran	t account	31,590.87 $1,295.91$
City	bond	is	rian	t account	5,436,500.00
City	park	t bonds			698,000.00
Old s	schoo	ol district b	onds	Service and the service and th	71,000.00
Boar	oi M	inneapons		392,000,0	9,451,460.81
Boar	d of	park com	nissi	392,000.0 oners. 21,550.4 ssioners. 100.000.0	
Boar	d of	library co	mmi	ssioners 100.000.00)
Hen	nepir	a county		2,572,133,4	
Tax	ievy			ous	9,693.09 1,921.25
				***************************************	2,670.87
		1882			1,856.43
66					7,379.80
					5,140.95 10,021.06
h 6		1886		***************************************	22,675.35
64		1887			22,675.35 54,228.05
66		1887 1888	 		22,675.35 54,228.05 203,057.14
44 44 43		1887. 1888. 1889.	· · · · · · · · · · · · · · · · · · ·		22,675.35 54,228.05 203,057.14 2,253,489.44
44 44 43		1887. 1888. 1889.	· · · · · · · · · · · · · · · · · · ·		22,675.35 54,228.05 203,057.14 2,253,489.44
44 44 43		1887. 1888. 1889.	· · · · · · · · · · · · · · · · · · ·		22,675.35 54,228.05 203,057.14 2,253,489.44
66 66		1887. 1888. 1889.	· · · · · · · · · · · · · · · · · · ·		22,675.35 54,228.05 203,057.14 2,253,489.44
66 66		1887. 1888. 1889.	· · · · · · · · · · · · · · · · · · ·		22,675.35 54,228.05 203,057.14 2,253,489.44
66 66		1887. 1888. 1889.	· · · · · · · · · · · · · · · · · · ·		22,675.35 54,228.05 203,057.14 2,253,489.44
66 66		1887. 1888. 1889.	· · · · · · · · · · · · · · · · · · ·		22,675.35 54,228.05 203,057.14 2,253,489.44
44 44 43		1887. 1888. 1889.	· · · · · · · · · · · · · · · · · · ·		22,675.35 54,228.05 203,057.14 2,253,489.44
Brid Brid Boan Park Sund West East Wate Fire Gran Ceda	ges o ges o ed of ts; pa tside side er ma depa ite b	1887. 1888. 1889. over Missis over Basset education rkways an oridges. pumping s ains artment pr olock paven	sippi tts' en propi d bo stati statio	river. 1,049,454.1 reek. 72,941.7 perty account 2,099,300.0 ulevards 3,918,400.0 ion. 23,830.6 ion. 278,646.1 ion. 114,559.8 ty account 349,018.6 289,492.8 289,492.8	22,675.35 54,228.05 54,228.05 203,057.14 2,253,489.44
Brid Brid Boan Park Sund West East Wate Fire Gran Ceda	ges o ges o ed of ts; pa tside side er ma depa ite b	1887. 1888. 1889. over Missis over Basset education rkways an oridges. pumping s ains artment pr olock paven	sippi tts' en propi d bo stati statio	river. 1,049,454.1 reek. 72,941.7 perty account 2,099,300.0 ulevards 3,918,400.0 ion. 23,830.6 ion. 278,646.1 ion. 114,559.8 ty account 349,018.6 289,492.8 289,492.8	22,675.35 54,228.05 203,057.14 2,253,489.44
Brid Brid Boan Park Sund West East Wate Fire Gran Ceda	ges o ges o ed of ts; pa tside side er ma depa ite b	1887. 1888. 1889. over Missis over Basset education rkways an oridges. pumping s ains artment pr olock paven	sippi tts' en propi d bo stati statio	river. 1,049,454.1 reek. 72,941.7 perty account 2,099,300.0 ulevards 3,918,400.0 ion. 23,830.6 ion. 278,646.1 ion. 114,559.8 ty account 349,018.6 289,492.8 289,492.8	22,675.35 54,228.05 203,057.14 2,253,489.44 5 6 6 7 7
Brid Brid Boan Park Sund West East Wate Fire Gran Ceda Curk Boul Sewe	ges of ges of ges of of ges of	1887. 1888. 1889. ver Missis ver Basset education rkways an rridges pumping pumping s ains. rrtment pr urtment pr gutters. gutters. gutters.	sippi tts' er prop d bo stat statio oper ment ent	river. 1,049,454.1 reek 72,941.7 perty account 2,009,300,00 ulevards 3,918,400.0 23,830.6 ion 278,646.1 01 114,559.8 ty account 349,018.6 289,492.8 573,451.3 373,446.4 4,756.3 4,756.3	22,675.35 54,228.05 203,057.14 2,253,489.44
Brid Brid Boan Park Sunc Wate Fire Gran Ceda Curk Boul Sewe Libr	ges of ge	1887. 1888. 1889. 1889. 1889. 1889. 1889. 1890. 1891. 1892.	sippi tts' en propi d bo stati operi ment es ov	river. 1,049,454.1. reek 72,941.70 perty account 2,009,300.00 ulevards 3,918,400.00 23,830.60 ion 278,646.1 in 114,559.8 ty account 349,018.6 289,492.8 573,451.3 373,446.4 4,756.3 4,756.3 2,446,552.1 er railroad tracks 79,511.4 account 320,654.0	22,675.35 54,228.05 203,057.14 - 2,253,489.44 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Brid Brid Boan Park Sunc Wate Fire Gran Ceda Curk Boul Sewe Viad Libr	ges of ge	1887. 1888. 1889. 1889. 1889. 1889. 1889. 1890. 1891. 1892.	sippi tts' en propi d bo stati operi ment es ov	river. 1,049,454.1. reek 72,941.70 perty account 2,009,300.00 ulevards 3,918,400.00 23,830.60 ion 278,646.1 in 114,559.8 ty account 349,018.6 289,492.8 573,451.3 373,446.4 4,756.3 4,756.3 2,446,552.1 er railroad tracks 79,511.4 account 320,654.0	22,675.35 54,228.05 203,057.14 2,255,489.44 5 6 6 7 7 8 8 8 8 8 8 8 8 9 9 9
Brid Brid Boan Park Sunc Wate Fire Gran Ceda Curk Boul Sewe Viad Libr	ges of ge	1887. 1888. 1889. 1889. 1889. 1889. 1889. 1890. 1891. 1892.	sippi tts' en propi d bo stati operi ment es ov	river. 1,049,454.1. reek 72,941.70 perty account 2,009,300.00 ulevards 3,918,400.00 23,830.60 ion 278,646.1 in 114,559.8 ty account 349,018.6 289,492.8 573,451.3 373,446.4 4,756.3 4,756.3 2,446,552.1 er railroad tracks 79,511.4 account 320,654.0	22,675.35 54,228.05 203,057.14 2,253,489.44 5 6 6 6 7
Brid Brid Boan Park Sunc Wate Fire Gran Ceda Curk Boul Sewe Viad Libr	ges of ge	1887. 1888. 1889. 1889. 1889. 1889. 1889. 1890. 1891. 1892.	sippi tts' en propi d bo stati operi ment es ov	river. 1,049,454.1. reek 72,941.70 perty account 2,009,300.00 ulevards 3,918,400.00 23,830.60 ion 278,646.1 in 114,559.8 ty account 349,018.6 289,492.8 573,451.3 373,446.4 4,756.3 4,756.3 2,446,552.1 er railroad tracks 79,511.4 account 320,654.0	22,675.35 54,228.05 203,057.14 2,253,489.44 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Brid Brid Boan Park Sunc Wate Fire Gran Ceda Curk Boul Sewe Viad Libr	ges of ge	1887. 1888. 1889. 1889. 1889. 1889. 1889. 1890. 1891. 1892.	sippi tts' en propi d bo stati operi ment es ov	river. 1,049,454.1. reek 72,941.70 perty account 2,009,300.00 ulevards 3,918,400.00 23,830.60 ion 278,646.1 in 114,559.8 ty account 349,018.6 289,492.8 573,451.3 373,446.4 4,756.3 4,756.3 2,446,552.1 er railroad tracks 79,511.4 account 320,654.0	22,675.35 54,228.05 54,228.05 203,057.14 2,253,489.44 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Brid Brid Boan Park Sunc Wate Fire Gran Ceda Curk Boul Sewe Viad Libr	ges of ge	1887. 1888. 1889. 1889. 1889. 1889. 1889. 1890. 1891. 1892.	sippi tts' en propi d bo stati operi ment es ov	river. 1,049,454.1. reek 72,941.70 perty account 2,009,300.00 ulevards 3,918,400.00 23,830.60 ion 278,646.1 in 114,559.8 ty account 349,018.6 289,492.8 573,451.3 373,446.4 4,756.3 4,756.3 2,446,552.1 er railroad tracks 79,511.4 account 320,654.0	22,675.35 54,228.05 203,057.14 2,255,489.44 5 6 6 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Brid Brid Boan Park Sund West East Fire Gran Ceda Ceda City Viad Libr Nort City Quan Wor Polid City Miss	ges o ges o cd of cd, pa try b tr side er ma depa der p an blder p an blder p tucts ary t h hall. ranti k hou ce de hall.	1887. 1888. 1889.	sippi tts' cc prop d bo stat ttatic oper ment ees ov eerty pum	river. 1,049,454.1. reek 72,941.7 perty account 2,099,300.0 ulevards 3,918,400.0 ion 278,646.1 in 114,559.8 ty account 349,018.6 25,406.0 278,461.3 373,461.3 373,461.3 373,461.4 4,756.3 4,756.3 24,46,552.1 er railroad tracks 79,511.4 account 320,654.0 ping station 208,965.7 count 181,189.2 count 63,910.3 count 63,910.3 count 63,910.3 count 65,000.0 account 550,000.0 account 211,010.6 account 221,010.6	22,675.35 54,228.05 203,057.14 - 2,253,489.44 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Brid Brid Boan Park Sund West East Fire Gran Ceda Ceda City Viad Libr Nort City Quan Wor Polid City Miss	ges o ges o cd of cd, pa try b tr side er ma depa der p an blder p an blder p tucts ary t h hall. ranti k hou ce de hall.	1887. 1888. 1889.	sippi tts' cc prop d bo stat ttatic oper ment ees ov eerty pum	river. 1,049,454.1 reek 72,941.7 perty account 2,009,300,00 ulevards 3,918,400.0 23,830.6 ion 278,646.1 in 114,559.8 ty account 349,018.6 289,492.8 573,451.3 373,446.4 4,756.3 4,756.3 2,446,552.1 er railroad tracks 79,511.4 account 320,654.0 ping station 208,965.7 count 181,189.2 erty account 63,910.3 account 550,000.0 account 550,000.0 account 211,910.8	22,675.35 54,228.05 203,057.14 - 2,253,489.44 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Brid Brid Boan Park Sund West East Fire Gran Ceda Ceda City Viad Libr Nort City Quan Wor Polid City Miss	ges o ges o d of deps side er ma deps deps huets huets hall. ranti k hou chall.	1887. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1899.	ssippi tts' ci propi d bo stat static operment es ove es ove erty all se an	river. 1,049,454.1. reek 72,941.7 geety account 2,099,300.0 ulevards 3,918,400.0 gion 278,646.1 m. 114,559.8 ty account 349,018.6 for 349,018.6 for 349,018.6 for 349,018.6 for 341.3 for	22,675.35 54,228.05 54,228.05 203,057.14 2,253,489.44
Brid Brid Boan Park Sund West East Fire Gran Ceda Ceda City Viad Libr Nort City Quan Wor Polid City Miss	ges o ges o d of deps side er ma deps deps huets huets hall. ranti k hou chall.	1887. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1899.	sippi tts' ci propi di bo stati ci propi di la ci propi d	river. 1,049,454.1. reek 72,941.70 perty account 2,099,300.00 ulevards 3,918,400.00 ion. 278,646.1 m. 114,559.8 ty account 349,018.6 sty account 350,466.4 sty account 320,664.0	22,675.35 54,228.05 54,228.05 203,057.14 2,253,489.44 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Brid Brid Boan Park Sund West East Fire Gran Ceda Ceda City Viad Libr Nort City Quan Wor Polid City Miss	ges o ges o d of deps side er ma deps deps huets huets hall. ranti k hou chall.	1887. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1899.	sippi tts' ci propi d bo stati tstatico stati coperri ment ent	river. 1,049,454.1. reek 72,941.7 geety account 2,099,300.0 ulevards 3,918,400.0 gion 278,646.1 m. 114,559.8 ty account 349,018.6 for 349,018.6 for 349,018.6 for 349,018.6 for 341.3 for	22,675.35 54,228.05 54,228.05 203,057.14 2,253,489.44
Brid Brid Boan Park Sunn Wess East Wat Fire Grar Ceda Curl Boul Viao Libr Nort City Qua Wor Polie City Miss Sund Wess Nort Nort City Sund Nort Nort Nort Nort Nort Nort Nort Nort	ges oges oges oges oges oges og ges o	1887. 1888. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1890.	sippi tts' er prop d bo statt ttatic operment es ov eerty pumi al	river. 1,049,454.1 reek 72,941.7 perty account 2,099,300.0 ulevards 3,918,400.0 23,836.6 ion 278,646.1 m. 114,559.8 ty account 349,018.6 sort 349,018.6 sort 349,018.6 sort 349,018.6 sort 349,018.6 sort 349,428.6 sort 341.3 sort 341	22,675.35 54,228.05 203,057.14 2,253,489.44 5 6 6 7 819,420,678.70
Bridd Boar Broad Boar Boar Boar Boar Broad Wess Boar Boar Boar Boar Boar Boar Boar Boar	ges or ge	1887. 1888. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1890.	sippi tts' cg prop d bo stat static operry pum all ses ove esty pum all d of	river. 1,049,454.1 reek 72,941.7 sperty account 2,099,300.0 ulevards 3,918,400.0	22,675.35 54,228.05 5203,057.14 2,253,489.44 5 2,253,489.44 6 6 6 6 7 819,420,678.70 Credit.
Bridd Boan Parks Wath Fire Gran Ceda Gran Vess Wath Fire Boul Sew Viac Librar Nort City Misc Boan New Fran Round Fran Rou	ges o	1887. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1890.	sippi tts' cc i proj d bo stat static operment tent ces ov erty pumi al	river. 1,049,454.1. reek 72,941.70 perty account 2,099,300.00 ulevards 3,918,400.00 278,646.11 114,559.8 ty account 349,018.6 1600,099.8 ty account 349,018.6 573,451.3 573,461.3 373,446.4 4,776.3 2,446,552.1 281,410.3 291,410.3 201,654.0 201,111,180.2 201,180.2 201,180.	22,675.35 54,228.05 203,057.14 2,253,489.44 5 6 7 8 10 10 10 10 10 10 10 10 10 10 10 10 10
Bridd Boan Parks Wats Wats Wats Fire Gran Ceda Curl Boul City Work City Mise Boan New Even Fran Hun Lefte	ges o	1887. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1890.	sippi sippi do bo stat tatio oper ment es ov eerty pump not see an of do o	river. 1,049,454.1. reek 72,941.7 perty account 2,099,300.0 ulevards 3,918,400.0 ulevards 3,918,400.0 ion 278,646.1 n 114,559.8 ty account 349,018.6 289,492.8 573,451.3 373,446.4 4,756.3 4,756.3 2,446,552.1 er railroad tracks 79,511.4 account 320,654.0 ping station 298,965.7 count 181,892. cry account 63,910.3 ccount 63,910.3 ccount 1910,62 cry account 250,000.0 **F19,420,678.7* **Education, Trial Balance, December 31, 1889. Debit. \$36,039.9 32,656.1 21,755.1	22,675.35 54,228.05 203,057.14 2,253,489.44 5 6 6 6 6 7 7 819,420,678.70 Credit.
Bridd Brid Brid Brid Brid Brid Boan Park Water East Water Fire Grar Ceda Curl Boul Store Viac Libr Nort City Misc Boan New	ges o	1887. 1888. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1890.	sippi sippi di bo stattatio stattatio stattatio ses overty pumi al	river. 1,049,454.1. reek 72,941.7 perty account 2,099,300.0 ulevards 3,918,400.0 ulevards 3,918,400.0 ion 278,646.1 n 114,559.8 ty account 349,018.6 289,492.8 573,451.3 373,446.4 4,756.3 4,756.3 2,446,552.1 er railroad tracks 79,511.4 account 320,654.0 ping station 2908,965.7 count 181,892. erty account 63,910.3 count 63,910.3 count 1910,650.0 erty account 221,910.6 d city hall commissioners 250,000.0 \$19,420,678.7 Education, Trial Balance, December 31, 1889. Debit. 836,039.9 32,656.1 21,755.1 34,649.1 36,379.9	22,675.35 54,228.05 203,057.14 2,253,489.44 5 6 6 6 6 7 6 7 7 819,420,678.70 Credit.
Bridd Boan Park Wats Wats East Wats Fire Gran Cedas Curl Boul Work Wiad Work Work Work Work Wats Boan New Ever Fran Hun Jeffe Line Mad	ges o	1887. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1890.	sippi tts' cc ts' cc ts	river. 1,049,454.1 reek 72,941.7 sperty account 2,099,300,00 ulevards 3,918,400.0	22,675.35 54,228.05 54,228.05 203,057.14 2,253,489.44 5 2,253,489.44 6 6 6 6 7 819,420,678.70 Credit.
Bridd Brid Boan Park Wats Wats Wats Fire Grar Ceda Curl Boul Source Viac Libr Nort City Misc Boan New	ges o	1887. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1889. 1890.	sippi tts' cc ts' cc ts	river. 1,049,454.1. reek 72,941.7 perty account 2,099,300.0 ulevards 3,918,400.0 ulevards 3,918,400.0 ion 278,646.1 n 114,559.8 ty account 349,018.6 289,492.8 573,451.3 373,446.4 4,756.3 4,756.3 2,446,552.1 er railroad tracks 79,511.4 account 320,654.0 ping station 2908,965.7 count 181,892. erty account 63,910.3 count 63,910.3 count 1910,650.0 erty account 221,910.6 d city hall commissioners 250,000.0 \$19,420,678.7 Education, Trial Balance, December 31, 1889. Debit. 836,039.9 32,656.1 21,755.1 34,649.1 36,379.9	22,675.35 54,228.05 203,057.14 2,253,489.44 5 6 6 7 7 819,420,678.70 Credit.

Winthrop School	57,125.67	
Webster "	39,932.39	
Clay "	25,978,47	
Garfield "	26,840.17	
	20,435.33	
Hawthorn "	1,199.65	
Douglass	1,199.00	
Tuttle	4,914.19	
Lyndale	25,812.25	
LIVING	. 21,685.70	
Harrison "	28,156.68	
Harrison "Prescott "	27,887.11	
Emerson "	52,835.81	
Motley "	33,657.34	
Lowell "	39,225.55	
Holland "	24,577.40	
Horace Mann school.	24.705.23	
Longfellow school	31.178.27	
Dookadas askasl	35,468,97	
Calbour "	31,178.27 35,468.97 35,330.22	
Rremer "	27,125.04	
Saward 4	40,450.02	
Washington school	99,430.65	
Calhoun " Bremer " Seward " Washington school. High school (Central).	160,819.66	
Adams school (Central)	64,132.59	
Truams school	30,081.54	
Sumner school.	10.749.61	
Whittier school	$\begin{array}{c} 19,742.61 \\ 71,968.71 \end{array}$	
North Side high school.	71.908.71	
Whittier school North Side high school Greeley school Corcoran Baneroft "	50,382.10	
Coreoran "	27,675.96	
Bancroft "	21.25	
Jackson	15,560.00	
Grant	31,754.20	
Clinton "	32,137.48	
Minnehaha school	15,777.49	
Hamilton school.	13,509.80	
Bonds		\$31,000.00
Hennenin county	567,021.37	
Tax levy 1885 1884 1885	,	3,439,85
" 1884		1,045.18
1885		1,696.80
'· 1886		4,636,20
" 1887		13,754.91
" 1887 " 1888.		13,754.91 38,450.48
" 1887 " 1888.		13,754.91
" 1887 " 1888 " 1889 R. J. Mendenhall	7,028.27	13,754.91 38,450.48
" 1887 " 1888 " 1889 R. J. Mendenhall	7,028.27 49,000.00	13,754.91 38,450.48 503,997.95
" 1887	7,028.27 49,000.00	13,754.91 38,450.48 503,997.95
" 1887	7,028.27 49,000.00	13,754.91 38,450.48 503,997.95
" 1887	7,028.27 49,000.00	13,754.91 38,450.48 503,997.95 392,000.00 29,486.59 1.043,712.85
" 1887 " 1888 " 1889 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable	49,000,00	13,754.91 38,450.48 503,997.95
" 1887 " 1888 " 1889 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable	49,000.00 87,943.82	13,754.91 38,450.48 503,997.95 392,000.00 29,486.59 1.043,712.85
" 1887 " 1888 " 1889 "	49,000,00	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1.043,712,85 226,500,00
" 1887 " 1888 " 1889 "	49,000.00 87,943.82 29,958.17	13,754.91 38,450.48 503,997.95 392,000.00 29,486.59 1.043,712.85
" 1887 " 1888 " 1889 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable	49,000.00 87,943.82	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1.043,712,85 226,500,00
" 1887 " 1888 " 1889 " 1889 " 1889 R. J. Mendenhall. Real estate City of Minneapolis School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account Advance for water mains and sewers	87,943.82 29,958.17 4,409.10	13,754,91 38,450.48 503,997,95 392,000.00 29,486.59 1.043,712.85 226,500.00 471.58
" 1887 " 1888 " 1889 "	49,000.00 87,943.82 29,958.17	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1.043,712,85 226,500,00
" 1887 " 1889 " 1889 " 1889 " 1889 " 18. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers. Total.	\$7,943.82 29,958.17 4,409.10 \$2,290,192.39	13,754,91 38,450.48 503,997,95 392,000.00 29,486.59 1.043,712.85 226,500.00 471.58
" 1887 " 1889 " 1889 " 1889 " 1889 " 18. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers. Total.	\$7,943.82 29,958.17 4,409.10 \$2,290,192.39	13,754,91 38,450.48 503,997,95 392,000.00 29,486.59 1.043,712.85 226,500.00 471.58
" 1887 " 1888 " 1889 " 1889 " 1889 R. J. Mendenhall. Real estate City of Minneapolis School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account Advance for water mains and sewers	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889.	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39
" 1887 " 1889 " 1889 " 1889 " 1899 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account Advance for water mains and sewers Total. Library Board, Trial Balance, December 31.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit.	13,754,91 38,450.48 503,997,95 392,000.00 29,486.59 1.043,712.85 226,500.00 471.58
" 1887 " 1889 " 1889 " 1889 " 1899 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account Advance for water mains and sewers Total. Library Board, Trial Balance, December 31.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889.	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t.
" 1887 " 1889 " 1889 " 1889 " 1899 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account Advance for water mains and sewers Total. Library Board, Trial Balance, December 31.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit.	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t. \$100,000,00
" 1887 " 1889 " 1889 " 1889 " 1899 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account Advance for water mains and sewers Total. Library Board, Trial Balance, December 31.	\$7,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t.
" 1887 " 1889 "	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit.	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t. \$100,000,00 11,904,36
" 1887 " 1889 R. J. Mendenhall. Real estate City of Minneapolis School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis Library fund. Real estate. Warrant account.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t. \$100,000,00
" 1887 " 1889 " 1889 R. J. Mendenhall. Real estate. City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund. Real estate. Warrant account. Henneph county	\$7,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t. \$100,000,00 11,904,36 5,00
" 1887 " 1889 " 1889 R. J. Mendenhall. Real estate. City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund. Real estate. Warrant account. Henneph county	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471.58 \$2,290,192.39 Cred t. \$100,000,00 11,904.36 5,00 684.65
" 1887 " 1889 " 1889 R. J. Mendenhall. Real estate. City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund. Real estate. Warrant account. Hennepin county. Tax levy 1885. Tax levy 1885.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89	13,754.91 38,450.48 503,997.95 392.000.00 29,486.59 1.043,712.85 226,500.00 471.58 \$2,290,192.39 Cred t. \$100,000.00 11,904.36 5.00 684.65 32,32
" 1887 " 1889 " 1889 R. J. Mendenhall. Real estate. City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund. Real estate. Warrant account. Hennepin county. Tax levy 1885. Tax levy 1885.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471.58 \$2,290,192.39 Cred t. \$100,000,00 11,904,36 5,00 684,65 32,32 1,666,74
" 1887 " 1889 " 1889 R. J. Mendenhall. Real estate. City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund. Real estate. Warrant account. Hennepin county. Tax levy 1885. Tax levy 1885.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471.58 \$2,290,192.39 Cred t. \$100,000,00 11,904,36 5,00 684,65 32,32 1,666,74 3,662,27
" 1887 " 1889 " 1889 R. J. Mendenhall. Real estate. City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers. Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund. Real estate. Warrant account. Hennepin county. Tax levy 1885. Tax levy 1885. Tax levy 1886. Tax levy 1887. Tax levy 1888.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.80 69,626.91	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471.58 \$2,290,192.39 Cred t. \$100,000,00 11,904,36 5,00 684,65 32,32 1,666,74
" 1887 " 1889 " 1889 R. J. Mendenhall. Real estate. City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers. Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund. Real estate. Warrant account. Hennepin county. Tax levy 1885. Tax levy 1885. Tax levy 1886. Tax levy 1887. Tax levy 1888.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t. \$100,000,00 11,904,36 5,00 684,65 32,32 1,666,74 3,692,27 63,550,93
" 1887 " 1889 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account Advance for water mains and sewers Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund Real estate. Warrant account. Hennepin county. Tax levy 1885. Tax levy 1886. Tax levy 1887. Tax levy 1888. Tax levy 1889. Building. Board of library commissioners	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89 69,626.91	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471.58 \$2,290,192.39 Cred t. \$100,000,00 11,904,36 5,00 684,65 32,32 1,666,74 3,662,27
" 1887 " 1889 R. J. Mendenhall. Real estate City of Minneapolis School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers. Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis Library fund. Real estate. Warrant account. Hennepin county. Tax levy 1885 Tax levy 1886 Tax levy 1887. Tax levy 1888. Tax levy 1888 Tax levy 1889 Building. Board of library commissioners Books.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89 69,626.91 228,954.01 10,094.42	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t. \$100,000,00 11,904,36 5,00 684,65 32,32 1,666,74 3,692,27 63,550,93
" 1887 " 1889 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund. Real estate. Warrant account. Hennepin county. Tax levy 1885. Tax levy 1885. Tax levy 1886. Tax levy 1888. Tax levy 1889. Building Board of library commissioners Books. Furniture.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89 69,626.91	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t. \$100,000,00 11,904,36 5,00 684,65 32,32 1,666,74 3,662,27 63,550,93 178,931,82
" 1887 " 1889 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account Advance for water mains and sewers Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund Real estate. Warrant account. Hennepin county. Tax levy 1885. Tax levy 1886. Tax levy 1887. Tax levy 1888. Tax levy 1889. Building. Board of library commissioners	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89 69,626.91 228,954.01 10,094.42	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t. \$100,000,00 11,904,36 5,00 684,65 32,32 1,666,74 3,692,27 63,550,93
" 1887 " 1889 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund. Real estate. Warrant account. Hennepin county. Tax levy 1885. Tax levy 1885. Tax levy 1886. Tax levy 1888. Tax levy 1889. Building Board of library commissioners Books. Furniture.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89 69,626.91 228,954.01 10,094.42	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t. \$100,000,00 11,904,36 5,00 684,65 32,32 1,666,74 3,692,27 63,550,93 178,931,82 25,000,00
" 1887 " 1889 R. J. Mendenhall. Real estate City of Minneapolis. School fund. Board of education Bills payable. Furniture E. H. Moulton, city treasurer. Warrant account. Advance for water mains and sewers Total. Library Board, Trial Balance, December 31. E. H. Moulton, city treasurer City of Minneapolis. Library fund. Real estate. Warrant account. Hennepin county. Tax levy 1885. Tax levy 1885. Tax levy 1886. Tax levy 1888. Tax levy 1889. Building Board of library commissioners Books. Furniture.	49,000.00 87,943.82 29,958.17 4,409.10 \$2,290,192.39 1889. Debit. \$11,909.36 58,867.89 69,626.91 228,954.01 10,094.42 6,015.50	13,754,91 38,450,48 503,997,95 392,000,00 29,486,59 1,043,712,85 226,500,00 471,58 \$2,290,192,39 Cred t. \$100,000,00 11,904,36 5,00 684,65 32,32 1,666,74 3,662,27 63,550,93 178,931,82

TAXES.

STATEMENT IN DETAIL OF LEVY OF 1889, FOR THE EXPENSES OF 1890, ALSO COMPARATIVE STATEMENT OF TAX LEVIES FOR ELEVEN YEARS.

BOARD OF TAX LEVY.

There is hereby created and constituted in and for the county of Hennepin, a board of tax levy, which shall be composed of the following, to-wit:

Chairman of board of county commissioners.

County auditor.

President of board of education of city of Minneapolis.

President of board of park commissioners.

Chairman of committee on ways and means, city council.

Comptroller of city of Minneapolis.

Mayor of city of Minneapolis.

Which several officers shall be ex-officio the members of the said board of tax levy.

Said board shall meet at the office of the county auditor on the second

Monday in September, in each year.

Said board shall fix the maximum rate of taxation for the various county and city purposes, and the city council, together with the various boards, may afterwards fix the rate in any sum that shall not exceed the maximum as fixed by the board of tax levy.

COUNTY AUDITOR'S OFFICE, Hennepin County, MINNEAPOLIS, September 27, 1889.

To the Honorable City Council:

GENTLMEN:—I certify that the following resolutions were adopted by the board of tax levy of Hennepin county, at a session of said board held September 24 1200.

tember 24, 1889, to-wit:

First—Resolved. That the maximum rate of taxation on each dollar of the valuation of the taxable property of the city of Minneapolis, be fixed at the following rates, for which the city council of said city is authorized to levy taxes for the year 1889, to-wit:

For current expenses, four and eight-tenths (4.8-10) mills.

For interest on bonded debt, two and three-tenths (2.3-10) mills.

For sinking fund, one (1) mill.

For permanent improvement fund, two (2) mills.

Second—Resolved, That the following rates be fixed as the maximum rate of taxation on each dollar of the valuation of taxable property in each of the wards as below specified, for which the city council of the city of Minneapolis is authorized to levy taxes for the year 1889, to-wit:

In the First ward, two and five-tenths (2.5-10) mills. In the Second ward, one and five-tenths (1.5-10) mills.

In the Third ward, two (2) mills. In the Fourth ward, one (1) mill.

In the Fifth ward, eight-tenths (8-10) of a mill.

In the Sixth ward, two and five-tenths (2.5-10) mills.

In the Seventh ward, two (2) mills.

In the Eighth ward, two and five-tenths (2.5-10) mills.

In the Ninth ward, two (2) mills.

In the Tenth ward, two and five-tenths (2.5-10) mills.

In the Eleventh ward, two (2) mills.

In the Twelfth ward, two and five-tenths (2.5-10) mills.

In the Thirteenth ward, two and five-tenths (2.5-10) mills. Witness my hand and official seal at Minneapolis, in said county, this 27th

day of September, A. D. 1889. L. A. CONDIT, County Auditor.

By E. ORTMAN, Deputy.

TAX LEVY OF 1889 FOR 1890.

Resolved, by the city council of the city of Minneapolis, that the following taxes are hereby levied and assessed upon the real and personal property of the city of Minneapolis for the year 1889, to-wit:

General fund.	\$591,539
Permanent improvement fund	257,191
Interest fund	
Sinking fund	
Total.	\$1,247,375

Resolved, further, that the following taxes are hereby levied and assessed upon the real and personal property of the several wards of said city, as follows:

1st	ward st	reet:	fund	 	 		 	 	 	 . \$8,571	
2nd	66	6.	6.6	 	 	 	 	 	 	 . 12,141	
3rd	66	6.6	4.6							 24,373	
4th	66	66	4.6							 000 900	
5th	6.6	6.								 44 504	
6th	44	6.6	6.6							 0.000	
7th	44	44	6.6	 	 	 				 10 607	
8th	66	66	4.6	 	 	 				 94 700	
0th	66	66	6.6							 0.484	
10th	66	66	6.6							0 114	
11th	66	66	66							 0 405	
12th	66	6.6	6.6							 6 819	
13th	66	66	66	 	 	 		 	 	 . 10.874	
noer	Total.			 	 	 	 	 	 	 . 10.014	\$185,03

Exhibit A

Is a recapitulation of the taxes assessed 1889 for 1890, as shown by the

books of the county auditor, January 1, 1890.		
Current expenses fund, 4.7-10 mills. Interst fund, 2.1-10 mills Sinking fund, 1 mill. Permanent improvement fund, viz. Two mill tax. Street opening, special assessments.	\$254,203.73	\$597,378.75 266,913.91 127,101.86 283,411.73
Library fund, 5-10 mill. Park fund, viz 5-10 mill tax. Tree planting, special. Special assessment.	\$63,550.93 2,676.00	\$63,550.93 133,531.53
Permanent improvement revolving fund, viz. One-fifth of curb and gutter, special assessment. One-fifth of pavement, special assessment. One-fifth of sewer, special assessment.	\$39,832.25 78,604.71	\$219,637.76
Water mains Board of education, 3 mills Board of education, 1 mill.	\$376,896.09	\$102,825.34
		\$503,997.95

WARD TAX.

Ward.	Street fund.	Sidewalk fund.	Sprinkling fund.	Total
1			\$5,900.74	
2	11,993.68	20,555.44	6,779.62	. 39,328.74
3	24,091.51	34,707.67	12,079,39	70,878,57
4	36,983,17	19,685.04	12,740,56	. 69,408,77
5		44,564.53	15,815,34	. 74,832,21
6	9,045.49	19,511.73	5,580.73	. 34,137.95
7	10,486.97	5,824.93	5,159.97	. 21,471.87
8	24,470.35	28,011.05	11,923.83	. 64,405.23
9	9,042.93	21,358.93	3,660.93	. 34,062.79
10	8,044.48	2,506.32	737.50	. 11,288.30
11	8,291.63	17,732.49	8,959.52	. 34,983.64
12	6,919.11	8,830.71	132.32	. 15,888.14
13	10,747.99	1,414.92	141.04	. 12,303.95
		\$250,048.06	\$89,617.49	\$522,688.56
Total	iter tore for all manne	000		90 001 000 00

Total city tax for all purposes...... \$2,821,038.32

\$660,929,68

Total revenue from special and mill tax.....

\$3,481,968,00

Exhibit B

Shows the valuation upon which the various levies are computed, (which is the valuation as returned by the board of equalization, less the exemptions which are \$100 on each personal assessment, amounting to \$1,493,563;) also the rate, purpose for which tax is levied, the amount for each fund, and the total tax levied on each ward.

Assessed valuation.	Rate, Mills.	Purpose.	Total tax.
\$127,101,861	4.7-10	General fund	\$597,378.75
127,101,861	2	Permanent imp. fund Interest fund	254,203.72
127,101,861	2.1-10	Interest fund	266,913.91
127,101,861		Sinking fund	127,101.86
127.101.861		Board of education	381,305.68
127,101,861		Sinking fund. Board of education. Library fund	63,550.93
127,101,861		Park fund	63,550.93
Total rate.		City tax	\$1,754,005.78
		State	
127.101.861	2.3-10	County	202.334.28
127,101,861	2	CountySchool	254,203.72
Total rate.	6.2-10	Total tax	\$788,031.54
4ssessed valuation		Rate,	Total
bu wards.	Ward.	Rate, Mills. 2.1-10	ward tax.
\$4,025,410		2.1-10	88,453,36
7,995,802	2		11,993.68
12,045,732		2.	24,091.51
36.983.127	4	2. 1.	36,983.17
24.087.197	5		14,452.34
4.307.374	6	2.1-10	9.045.39
5,243,493	7	2. 2.1-10.	10,486,97
11,652,552	8	2.1-10	24,470.35
4.521.476	9.	2	9.042.93
3,830,725	10	2. 2.1-10.	8,044,48
4.145.816		2.1-10	8,291.63
3.145.047	12	2.1-10	6,919,11
5,118,110		2.1-10.	10,747.99
\$127.101,861	Average rate		\$183,023.01
Total rate each wa 1st ward, 22.1-10	ard		Total tax paid each ward.

	10	1000		·ve																					11	nui	aix pen	u
	-	each was																								eac	h ward	t.
1st	ward	l, 22.1 -1 0 ı	mill	S.,																						\$88	3.961.57	
2d	6.6	21.5-10	6.6														 			 						177	.909.75	
3d	**	22,	6.6																							26	006.11	
4th	4.6	21.	. 6																							7776	645 18	
5th	4 4	20.6-10	6.6																							406	106 96	
ith	6.6	22.1-10	6.6																							08	109.07	
th	**	22.	. 6																							118	190.91	
t.h	4.4	22.1-10	66																							1.14	7,500.00	
)th	4.6	99																								29	,521.40	
+1.		22.1-10			 				٠.			٠.	٠.				 	 	٠.	 ٠.	٠.	٠.	٠.			99	,472.48	
+1		99			 		٠.	٠.		٠.	٠.	٠.	٠.	٠.	٠.	٠.	 		٠.	 						84	,659.03	
113	4.6	20. 1 10	6.0		 			٠.	٠.	٠.	٠.	٠.	٠.	٠.	٠.		 	 		 	٠.					91	1,207.96	
sth		22.1-10			 			٠.									 	 		 						69	,505.55	
sth	**	22.1-10			 	٠.											 	 		 				 		113	.424.71	

\$2,725,060.33

^{*}Except in school district 6 and 8, 19.2-10. *Except in school district 6 and 8, 19.1-10.

Exhibit C

Shows the number of mills assessed for different purposes for eleven years beginning with 1879. To ascertain the total levy for any particular year, add to the total of state, county, school and city, the ward tax, and you have the total tax levy for that year—as in 1885, city 14 mills, state, county and school 4.3 mills, Third ward tax 2 mills—total tax in Third ward 1885—20.3-10 mills.

1889	Mills. 1.0.0.0 0.0.0 0.0.0 0.0.0	13.8	25.3	6.3	01-01-00000000000000000000000000000000
1888	Mills. 2.00 2.00 0.53 0.53	12.9	2.1 4.1 9.0	5.1	# # # # # # # # # # # # # # # # # # #
1887	Mills. 22.00 0.55.00 0	14.7	9.1.9	5.3	ಚಿತ್ರಗಳ ಸಂಭಾಗವಾಗುವರು ಪರ್ಲಾಹ ಹಾಡ್ಡರಾಗುವರು ಸಂಭಾಗವಾಗುವರು
1886	Mills. 5.0 1.0 0.5 0.5 0.5	12.9	E:11 1:0	3.6	ಚಚಚಾರಿಯಚಳು : : : : : : : : : : : : : : : : : : :
1885	Mills. 22.22 23.23 23.23 0.44 0.44	14.0	1.5	4.3	ට්ට්රාන්ත්ට්ට් වට්ටන්න්ට්ට්
1884	Mills. 1.66 1.88 1.00 1.00 1.70	12.7	1.5	8.8	00040000
1883	Mills. 25.0 22.5 1.0 1.0	16.0	1.8 1.0	8.4	ಪ್ರ
1882	Mills. 5.0 2.9 2.9 1.0	14.1	1.1 2.0 1.0	4.1	
1881	Mills. 2.55 2.55 1.0 4.0	14.5	4.3.0.1	4.6	0F0F60
1880	4.9 6.25 9.25 2.75	10.80	1.00	5.3	1100011111
1879	3.45 9.5 0.45 3.0	9.40	7:00 1:00 1:0	4.5	10001000000000000000000000000000000000
CITY.	General fund Pernament improvement fund Interest fund Sinking fund Board of education Park fund Libray fund	*Total	State. ('ounty School'	*Total.	First ward Second ward Second ward Fourth ward Fith ward Sixth ward Seventh ward Ninth ward Ninth ward Eleventh ward Thurthenth ward Theirth ward

*Not including ward tax.

Exhibit D

Shows the assessed valuation after the exemptions have been deducted) of each ward, and the total rate of taxation for each ward. In making comparisons of one year's levy with another, it is only fair that you compare the items which make up the total levy (see table folio 47). In 1886 the average total levy was 17.9 mills, while the preceding year it was 19.6 mills, and the succeeding year it was 21.5. You will observe that in 1886 the levy for permanent improvements was onitted, hence the low levy.

Rate—Mills.	18.5-10 18.5-10 18.5-10 17.3-5-10 17.5-10 18.5-10 18.5-10 18.5-10	17.8-10
Assessed valuation 1884.	84,554,391 4,890,069 6,507,311 26,168,931 17,001,545 5,728,548 3,427,578 5,944,349	\$74,310,711
Rate— Mills.	23.23-10 23.23-10 23.23-10 23.23-10 23.23-10 23.23-10 23.23-10	22.4-10
Assessed valuation, 1883.	83, 184, 001 3, 657, 446 3, 904, 117 19, 557, 156 4, 262, 665 2, 466, 454 3, 097, 853	\$53,901.812
Rate— Mills.	19.9-10 19.9-10 19.7-10 19.7-10 19.7-10	19.5-10
Assessed valuation, 1882.	82,560.708 3,095,243 2,970,464 16,545,115 11,561,670 3,959,844	840,702,044
Rate—Mills.	21.1-10 20.8-10 20.8-10 20.6-10 20.6-10	20.8-10
Assessed valuation, 1881.	81,001,612 2,657,557 2,118,488 12,225,488 9,813,090 2,408,931	\$31,188,486
Rate— Mills.	17.6-10 17.1-10 17.1-10 17.1-10 16.6-10 16.6-10	16.8-10
Assessed valuation, 1880.	\$1,794.973 5,282.015 2,072.482 10,583.609 9,330,333 2,280,033	\$28,013,315
Rate— Mills.	14.9-10 14.6-10 14.9-10 14.4-10 14.4-10	14.5-10
Assessed valuation, 1879.	84,322,111 1,671,730 1,071,730 1,071,730 1,274,084 1,275,084 1,275,084	\$23,415,733
WARDS.	First Second Third Fourth Fruth Sixth Sixth Ninth Fighth Fighth Teath Teath Teath Thirteenth	Total

WARDS.	Assessed valuation, 1885.	Rate— Mills.	Assessed valuation, 1886.	Rate— Mills.	Assessed valuation, 1887.	Rate— Mills.	Assessed valuation, 1888.	Rate— Mills.	Assessed valuation, 1889.	Rate— Mills.
First Second Second Fourth Fourth Sixth Sixth Seventh Seventh Fighth	84,607,300 6,007,104 27,400,725 77,400,725 5,908,129 8,508,744 6,216,529	20.32.10 20.32.10 20.32.10 20.32.10 20.32.10	85.965.454 7.151.687 10.075.182 32,408.832 7.277.340 4.687.343 9,726,373	19. 18.5-10 19. 17.3-10 17.1-10 19.	24, 008, 340 7, 588, 441 83, 145, 145 8, 204, 838 8, 204, 838 8, 204, 304 1, 948, 304 1, 948, 304 1, 948, 378 8, 834, 778	200	\$4,028,028 7,056,887 7,056,887 87,526,008 4,286,136 5,078,631 4,338,717 4,338,717 4,338,717 5,094,711 3,192,396 5,192,396	20. 19.3-10 18.6-10 18.5-10 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	\$4,025,410 7,995,802 12,045,732 86,983,137 4,307,374 1,625,552 4,111,672,552 4,145,816 3,145,047 5,118,107	2.5-10 2.6-10 2.6-10 2.6-10 2.6-10 2.6-10 3.6-10 3.6-10 3.6-10 3.6-10 4.
Total	\$77,468,267	19.6-10	\$99,591,762	17.9-10	17.9-10 \$103,581,566	21.5-10	\$126,139,886	19.2-10	\$127,101.861	21.4-10

*Except lands in school districts 6 and 8, 19.1-10 mills. *Except lands in school districts 6 and 8, 19.2-10 mills.

Exhibit E

Shows the valuation of city property upon which the tax levy is computed for eleven years beginning with 1879—also shows the average total rate of taxation on each dollar of assessed valuation. The valuation as shown in this table is the valuation after the exemptions in personal property have been deducted, which is \$100 on each personal assessment.

				Average rate of taxation o \$1 of assessed valuation.
Total:	valuation	for	1879.	\$23,415,733. 14.5 Mills.
46	**	66	1880.	28,013,315
6.6	6.6	6.6	1881.	31,188,486
	64	6.6	1882.	40,702,044. 19.5 "
**	**	4.6	1883.	53,901,812
4.6	4.6	4.6	1884.	74,310,711. 17.8 "
**	6.6	6.6	1885.	77,468,267
	6.6	64	1886	99,591,762
	. 6	6.6	1887.	103,581.566. 21.5 "
	**	66	1888.	126,139,886. 19.2 "
**	••	66	1889.	127,101,861. 21.4 "

Exhibit F.

THE FOLLOWING IS A LIST OF DELINQUENT TAXES.

Tax	levv	of 1879 and prior	City. \$9,693,09	School.	Library.
6.		1880			
6.6	6	1881	2,670,87		
4,6	4.6	1882	1,856,43		
+6	6.6	1883	7,379.80	3,439.85	
4.6	6.6	1884	5,140,95	1,045.18	
+4	6.6	1885	10.021.06	1,696,73	684,65
	.6	1886	22,675.35	4,636.20	32.32
6.6	6.6	1887	54,228.05	13,754.91	1,666.74
**	66	1888	203,057.14	38,450.48	3,692.27
			318,643.99	\$63,023.35	* \$6.075.98

RECAPITULATION.

City School board Library		 \$318,643.99 63,023.35 6,075.98
n	1.4.7	9907 749 90

Exhibit G.

STREET LIGHTING

The Minneapolis Gas Light Co. and the Minnesota Brush Electric Co. contracts expire September 1st, 1892. All other contracts expire April 1st, 1890.

ESENT NUMBER OF STREET LIGHTS IN USE.

FRESENT NUMBER
THE SUN VAPOR GAS LIGHT CO.:
100 gasoline lamps at \$22.80 per annum.
763 gasoline lamps at 20.20 per annum.
3 gasoline lamps at 36.00 per annum.
_
866
Wheeler Reflector Co.:

193 kerosene lamps at \$17.95 per annum. *527 kerosene lamps at 20.95 per annum.

NORTH WESTERN GLOBE GAS LIGHT CO.: *412 gasoline lamps at \$23.00 per annum. 492 gasoline lamps at 20.00 per annum.

MINNESOTA BRUSH ELECTRIC CO. 495 electric lights at \$150.00 per annum. MINNEAPOLIS GAS LIGHT CO.: 2,854 gas lights at \$15.63 per annum.

*This price includes \$3.00 per year per post additional for rental.

A three year contract, dating April 1, 1890, has been awarded to the North Western Globe Gas Light Co., for 2,000 of their improved lamps; they to furnish everything at \$14.40 per annum, and stand all breakages. This contract is to take the place of the 2,492 kerosene and gasoline lamps now in use.

Under the new contract the city will save \$22,987,90 per annum, besides the breakage, which has amounted to nearly \$2,000 per annum, or \$74,693.70 on the contract.

Providing the city does not increase the gas or electric lighting, the total cost of lighting the city will be \$138,658.02 per annum.

STATEMENT IN DETAIL

 $^{\mathrm{OF}}$

ESTIMATES AND APPROPRIATIONS

FOR MAINTAINING THE VARIOUS DEPARTMENTS OF THE CITY OF MINNEAP-

OLIS FOR THE YEAR ENDING DECEMBER 31, 1890.

Section No. 8, chapter No. 5, city charter: "The city comptroller shall on or before the 10th day of September of each year, report to the city council an estimate of the current expense of the city and several wards thereof for the fiscal year, commencing (as amended) on the 1st day of January, next ensuing, together with a statement of the amount of all revenues received by the city for the year ending on the 1st day of September from other sources than taxation."

ESTIMATES FOR THE YEAR 1890.

FIRE DEPARTMENT.

Expense of norses	Expense of fuel and lights. Repairs to apparatus and buildings.	9,917.26 7,956,15	
Estimate for twelve months	Expense of horses	15,059.59	
Estimate for twelve months. Estimate for ten months. Estimate for ten months. Fire alarm telegraph. Two steam fire engines. Two steam fire engines. Two hose carriages. Two hose of the months. Two hose of the months. Two hose of the months. Type of the carriages. Two hose of the months. Type of the carriages. Two hose of the months. Two ho	Store room supplies		
Estimate for ten months. \$225,827.50 Fire alarm telegraph. 17,524.00 Two steam fire engines. 10,000.00 Two hose carriages. 10,000.00 One water tower. 5,000.00 Sixteen horses and harness. 4,729.00 Eight thousand feet hose 8,000.00 POLICE DEPARTMENT. One superintendent police, \$3,500 per annum 6,000.00 Five inspectors, \$1,200 per annum 6,000.00 Five captains, \$1,200 per annum 13,000.00 One sergeant, superintendent, \$1,200 per annum 13,000.00 One sergeant, superintendent, \$1,200 per annum 13,000.00 Four lieutenants, \$1,200 per annum 13,000.00 One sergeant, superintendent, \$1,200 per annum 13,000.00 Four court officers, \$900 per annum 5,000.00 Four court officers, \$900 per annum 5,000.00 Fix drivers, \$900 per annum 5,000.00 Fix drivers, \$900 per annum 90,900.00 Thirty-six patrolinen, \$800 per annum 90,900.00 Thirty-six patrolinen, \$800 per annum 17,400.00 Fifteen patrolmen, nounted, \$1,160 per annum 17,400.00 Twenty patrolmen, new, \$780 per annum 15,600.00 Clerks, telegraph operators, surgeons, janitors, etc 7,032.00 Estimate for twelve months \$209,732.00 Estimate for twelve months \$209,732.00 Estimate for twelve months \$200,000.00 Fifteen patrol wagon and team \$1,550.00 New patrol boxes, \$1,500.00 Fifteen patrol wagon and team \$1,550.00 New patrol wagon and team \$1,550.00 New patrol wagon and team \$1,550.00 Furnishing three new stations. 3,000.00	General running expenses	5,800.00	
Fire alarm telegraph	Estimate for twelve months	\$270,993.00	
Two steam fire engines. 10,000.00 Two hose carriages 1,600.00 One water tower. 5,000.00 Sixteen horses and harness. 5,000.00 Sixteen horses and harness. 4,729.00 Eight thousand feet hose 8,000.00 POLICE DEPARTMENT. One superintendent police, \$3,500 per annum 6,000.00 Five inspectors, \$1,200 per annum 6,000.00 Five eaptains, \$1,200 per annum 13,000.00 Five eaptains, \$1,200 per annum 14,400.00 Thirteen sergeants, \$1,000 per annum 12,800.00 One sergeant, mounted, \$1,260 per annum 12,800.00 Four ileutenants, \$000 per annum 12,800.00 Four court officers, \$900 per annum 3,600.00 Six jailors, \$900 per annum 5,400.00 Six drivers, \$900 per annum 90,900.00 Thirty-six patrolimen, \$400 per annum 90,900.00 Thirty-six patrolimen, \$400 per annum 17,400.00 Fifteen patrolimen, mounted, \$1,160 per annum 17,400.00 Fifteen patrolimen, new \$780 per annum 15,600.00 Clerks, telegraph operators, surgeons, janitors, etc 7,032.00 Estimate for twelve months \$209,732.00 Estimate for twelve months \$209,732.00 Estimate for twelve months \$200,000.00 New patrol boxes \$15,500.00 New patrol boxes \$15,500.00 Furnishing three new stations 3,000.00	Estimate for ten months		\$225,827.50
Two hose carriages 1,600.00 One water tower. 5,000.00 Sixteen horses and harness. 4,720.00 Eight thousand feet hose 8,000.00 POLICE DEPARTMENT. One superintendent police, \$3,500 per annum 6,000.00 Five inspectors, \$1,200 per annum 6,000.00 Five captains, \$1,200 per annum 1,200.00 Four lieutenants, \$1,100 per annum 1,200.00 Thirteen sergeants, \$1,000 per annum 1,200.00 Thirteen sergeants, \$1,000 per annum 1,200.00 Six jailors, \$000 per annum 1,200.00 Six jailors, \$000 per annum 5,000.00 Six jailors, \$000 per annum 5,000.00 Six drivers, \$000 per annum 90,900.00 Thirty-six patrolmen, \$000 per annum 90,900.00 One hundred and one patrolmen, \$000 per annum 90,900.00 Thirty-six patrolmen, \$000 per annum 17,400.00 Twenty patrolmen, mounted, \$1,160 per annum 17,400.00 Twenty patrolmen, mounted, \$1,160 per annum 15,600.00 Clerks, telegraph operators, surgeons, janitors, etc 7,032.00 Estimate for twelve months \$209,732.00 Estimate for twelve months \$209,732.00 Estimate for twelve months \$200,000.00 New patrol boxes. 18,000.00 Wiscellancous expenses 18,000.00 Furnishing three new stations 3,000.00	Fire alarm telegraph		
One water tower. 5,000.00 Sixteen horses 2nd harness. 4,729.00 Eight thousand feet hose. 8,000.00 POLICE DEPARTMENT. One superintendent police, \$3,500 per annum. \$3,500.00 Five captains, \$1,200 per annum. 6,000.00 Five captains, \$1,200 per annum. 6,000.00 Four lieutenants, \$1,100 per annum. 13,000.00 One sergeant, \$1,200 per annum. 12,60.00 Four court officers, \$900 per annum. 3,600.00 Six jailors, \$900 per annum. 5,400.00 Six drivers, \$900 per annum. 5,000.00 One hundred and one patrolmen, \$900 per annum. 90,900.00 Thirty-six patrolmen, \$900 per annum. 30,240.00 Fifteen patrolmen, mounted, \$1,160 per annum. 17,400.00 Twenty patrolmen, new, \$780 per annum. 15,600.00 Clerks, telegraph operators, surgeons, janitors, etc. 7,032.00 Estimate for twelve months. \$209,732.00 Estimate for wagon and team. \$1,550.00 New patrol boxes. 18,000.00 Furnishing three new stations. 30,000.00	Two steam are engines		
Sixteen horses and harness	One water tower	1,600.00	
### POLICE DEPARTMENT One superintendent police, \$3,500 per annum \$3,500.00 Five inspectors, \$1,200 per annum 6,000.00 Five appearance 6,000.00 Five appearance 6,000.00 Five appearance 6,000.00 Four lieutenants, \$1,200 per annum 6,000.00 Four lieutenants, \$1,100 per annum 1,000.00 Thirteen sergeants, \$1,000 per annum 1,260.00 One sergeant, mounted, \$1,200 per annum 1,260.00 Four court officers, \$900 per annum 1,260.00 Four court officers, \$900 per annum 5,400.00 Six jailors, \$900 per annum 5,400.00 Six drivers, \$900 per annum 5,400.00 Four court officers, \$900 per annum 1,000.00 Four court officers	One water tower.	5,000.00	
#46,844.00 POLICE DEPARTMENT. One superintendent police, \$3,500 per annum. \$3,500.00 Five inspectors, \$1,200 per annum. 6,000.00 Five eaptains, \$1,200 per annum. 6,000.00 Four lieutenants, \$1,100 per annum. 13,000.00 Thirteen sergeants, \$1,000 per annum. 13,000.00 One sergeant, \$1,000 per annum. 13,000.00 One sergeant, \$1,260 per annum. 13,000.00 Four court officers, \$900 per annum. 5,000.00 Six jailors, \$900 per annum. 5,000.00 Six jailors, \$900 per annum. 5,000.00 One hundred and one patrolmen, \$900 per annum. 90,900.00 Thirty-six patrolmen, \$940 per annum. 30,240.00 Fifteen patrolmen, mounted, \$1,160 per annum. 17,400.00 Twenty patrolmen, new, \$780 per annum. 15,600.00 Clerks, telegraph operators, surgeons, janitors, etc. 7,032.00 Estimate for twelve months. \$209,732.00 Estimate for ten months. \$209,732.00 New patrol boxes. 18,000.00 Wiscellaneous expenses. 18,000.00 Furnishing three new stations. 3,000.00	Fight thousand feet hose		
POLICE DEPARTMENT	-	6.000.00	\$46,844.00
POLICE DEPARTMENT			\$272,671,50
Five aspectors, \$1,200 per annum 6,000,00 Five captains, \$1,200 per annum 6,000,00 Four lieutenants, \$1,100 per annum 4,400,00 Thirteen sergeants, \$1,000 per annum 13,000,00 One sergeant, mounted, \$1,260 per annum 1,280,00 Four court officers, \$900 per annum 3,600,00 Six jailors, \$900 per annum 5,400,00 Six drivers, \$900 per annum 5,000,00 One hundred and one patrolmen, \$900 per annum 90,900,00 Thirty-six patrolmen, \$840 per annum 17,400,00 Fifteen patrolmen, mounted, \$1,160 per annum 17,400,00 Clerks, telegraph operators, surgeons, janitors, etc 7,032,00 Estimate for twelve months \$209,732,00 Estimate for ten months \$209,732,00 Estimate for twelve months \$1,550,00 New patrol boxes 18,000,00 Furnishing three new stations 3,000,00 Furnishing three new stations 3,000,00			0.000
Five aspectors, \$1,200 per annum 6,000,00 Five captains, \$1,200 per annum 6,000,00 Four lieutenants, \$1,100 per annum 4,400,00 Thirteen sergeants, \$1,000 per annum 13,000,00 One sergeant, mounted, \$1,260 per annum 1,280,00 Four court officers, \$900 per annum 3,600,00 Six jailors, \$900 per annum 5,400,00 Six drivers, \$900 per annum 5,000,00 One hundred and one patrolmen, \$900 per annum 90,900,00 Thirty-six patrolmen, \$840 per annum 17,400,00 Fifteen patrolmen, mounted, \$1,160 per annum 17,400,00 Clerks, telegraph operators, surgeons, janitors, etc 7,032,00 Estimate for twelve months \$209,732,00 Estimate for ten months \$209,732,00 Estimate for twelve months \$1,550,00 New patrol boxes 18,000,00 Furnishing three new stations 3,000,00 Furnishing three new stations 3,000,00	One superintendent police, \$3,500 per annum	\$3,500.00	
Five captains, \$1,300 per annum	Five inspectors, \$1.200 per annum	6,000.00	
Tour flettreants, \$1,100 per annum	Five captains, \$1,200 per annum		
1,260.00			
Solution			
Six drivers, \$900 per annum 5,400.00	Four court officers (000 per annum		
Six drivers, \$900 per annum 5,000.00	Six isilors 2000 per annum		
One numbered and one patronnen, \$800 per annum 90,900,000	Six drivers, 8000 per annum		
Thirty-six patroimen, \$840 per annum. 30,240,00	One hundred and one patrolmen woo her annum		
Truenty patrolmen, new \$780 per annum 17,400.00	I DIPLY-SIX Dall'Oldien. 8840 per annum		
Twenty patrolinen, new, 5/80 per annum 15,600.00			
Estimate for twelve months \$209,732.00 Estimate for tren months \$1,550.00 Estimate for ten months \$1,550.00 New patrol wagon and team \$1,800.00 Miscellaneous expenses 20,000.00 Furnishing three new stations 3,000.00	I Wenty Datroinen, new, xou ner annum		
Estimate for ten months \$174,776.67	Clerks, telegraph operators, surgeons, janitors, etc	7,032.00	
Estimate for ten months \$174,776.67	Estimate for twelve months	\$209,732.00	
One new patrol wagon and team. \$1,550.00 New patrol boxes. \$18,000.00 Miscellaneous expenses. \$20,000.00 Furnishing three new stations. \$3,000.00	Estimate for ten months		\$174,776.67
18,000.00	One new patrol wagon and team.		
Furnishing three new stations. 20,000.00 Supplies 20,000.00 20,000.00	New patrol boxes		
	Miscerianeous expenses,		
	r urmsning three new stations	3,000.00	412 550 00
			\$42,550.00

\$217,326.67

STREET LIGHTING.

475 electric lights, \$150 per annum	\$71,250.00	
3,050 gas lights, \$15.63 per annum	47,671.50	
500 gas lights, 15.63 " 5 months	3,256.25	
*406 globe lights, 23.00 " 2 "	2.500.00 $2,234.50$	
*100 sun vapor lights, \$22.80 per annum, 3 months	570.00	
*200 20.30 3	$\frac{1.015.00}{3.296.98}$	
*197 Wheeler refletor, 17.90 " " 3 "	881.57	
*523 " 20.90 " " 3 "	881.57 2,732.67	
2500 artificial lights, 15.00 " " 9 "	$28,125,00 \\ 6,466,53$	
475 electric lights, \$150 per annum 3,050 gas lights, \$15.63 per annum 500 gas lights, \$15.63 " " 5 months. *500 globe lights, 20.00 " " 3 " *406 globe lights, 23.00 " " 2 " *100 sun vapor lights, \$22.80 per annum, 3 months. *200 " " 20.30 " 3 " *200 " " 3 " *200 " " 3 " *197 Wheeler refletor, 17.90 " " 3 " *198 Wheeler refletor, 17.90 " " 3 " *2500 artificial lights, 15.00 " " 9 " Incidentals.	0,100.00	
Estimate for 12 months	\$170,000.00	0444 000 000
Estimate for 10 months		\$141,666.67
*The 2,500 lights at \$15.00 are to take the place of these lights when	n the contra	ets expire.
SALARIES OF CITY OFFICIALS.		
Mayor, \$2,000 per annum. Mayor's secretary, \$600 per annum. Thirty-nine aldermen, \$720 per annum. City attorney, \$4,500 per annum. Two assistant city attorneys, \$1,500 per annum. City comptroller, \$3,100 per annum. Deputy city comptroller, \$1,200 per annum. City clerk, \$3,100 per annum. Clerk, \$1,000 per annum. Clerk, \$1,000 per annum. Clerk, \$780 per annum. Clerk, \$840 per annum. Clerk, \$840 per annum. Clerk, \$840 per annum. Clerk, city treasurer, \$1,200 per annum. Clerk, city treasurer, \$1,200 per annum. Thirteen street commissioners, \$900 per annum. Thirteen street commissioners, \$900 per annum. Meat inspector, \$1,400 per annum. Meat inspector, \$1,400 per annum. Assistant city physician, \$900 per annum. Meat inspector, \$1,400 per annum. Assistant meat inspector, \$1,900 per annum. Meat inspector, \$1,400 per annum. Assistant meat inspector, \$1,900 per annum. Assistant meat inspector, \$1,900 per annum.	\$2,000.00	
Mayor's secretary, \$600 per annum	600.00	
City attorney \$4 500 per annum	28,080.00 4,500.00	
Two assistant city attorneys, \$1,500 per annum.	3,000.00	
Stenographer for city attorney, \$780 per annum	780.00	
Deputy eity comptroller, \$3,100 per annum	3,100.00 1,200.00	
City clerk, \$3,100, per annum.	3,100.00	
Clerk, \$1,000 per annum	1,000.00	
Assistant city clerk, \$1,000 per annum	780.00	
Clerk, \$840 per annum	840.00	
City treasurer, \$1,200 per annum	1,200.00	
Clerk, city treasurer, \$1,200 per annum	1,200.00 800.00	
City physician, \$1,500 per annum	1,500.00	
Assistant city physician, \$900 per annum	900.00	
Thirteen street commissioners, \$900 per annum	11,700.00	
Assistant meat inspector, \$1,200 per annum	1,400.00 1,200.00	
Sealer of weights and measures, \$200 per annum	200.00	
Meat inspector, \$1,400 per annum. Assistant meat inspector, \$1,200 per annum Sealer of weights and measures, \$200 per annum. Attendant city hall scales, \$720 per annum. Light inspector.	720.00	
Light inspector	1,166.00	
Estimate for 12 months	000 000 00	
	\$71.966.00	
Estimate for 10 months	\$71,966.00	\$59,971.67
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT.	\$71,966.00	\$59,971.67
Estimate for 10 months		\$59,971.67
Estimate for 10 months	\$40,000,00	\$59,971.67
Estimate for 10 months	\$40,000.00 2,500,00 900,00	\$59,971.67
Estimate for 10 months	\$40,000.00 2,500.00 900.00 800.00	\$59,971.67
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc Instruments and repairs	\$40,000.00 2,500.00 900.00 800.00 300.00	\$59,971.67
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs Mans and plats.	\$40,000,00 2,500,00 900,00 800,00 300,00 200,00	\$59,971.67
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc Instruments and repairs	\$40,000.00 2,500.00 900.00 800.00 300.00 200.00	\$59,971.67
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc Instruments and repairs Maps and plats Livery Postage.	\$40,000.00 2,500.00 900.00 800.00 300.00 200.00 200.00 100.00	\$59,071.67
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs Mans and plats.	\$40,000,00 2,500,00 900,00 800,00 300,00 200,00	\$59,071.67 \$37,500.00
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc Instruments and repairs Maps and plats. Livery Postage Etimate for twelve months. Estimate for ten months.	\$40,000.00 2,500.00 900.00 800.00 300.00 200.00 200.00 100.00	
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc Instruments and repairs Maps and plats. Livery Postage Etimate for twelve months. Estimate for ten months. STREET OPENING EXPENSES.	\$40,000.00 2,500.00 900.00 800.00 300.00 200.00 200.00 100.00	
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc Instruments and repairs Maps and plats. Livery Postage Etimate for twelve months. Estimate for ten months.	\$40,000.00 2,500.00 900.00 800.00 300.00 200.00 200.00 100.00	
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs. Maps and plats. Livery Postage. Etimate for twelve months. Estimate for ten months. Estimate for ten months. Expense of commissioners in opening streets.	\$40,000.00 2,500.00 900.00 800.00 300.00 200.00 200.00 100.00 \$45,000.00	
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc Instruments and repairs. Maps and plats. Livery Postage. Etimate for twelve months. Estimate for ten months. STREET OPENING EXPENSES. Expense of commissioners in opening streets. Estimate for twelve months	\$40,000,00 2,500,00 900,00 800,00 300,00 200,00 200,00 100,00	
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs. Maps and plats. Livery Postage. Etimate for twelve months. Estimate for ten months. STREET OPENING EXPENSES. Expense of commissioners in opening streets. Estimate for twelve months. Estimate for twelve months.	\$40,000.00 2,500.00 900.00 800.00 300.00 200.00 200.00 100.00 \$45,000.00	\$37,500,00 ·
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs. Maps and plats. Livery Postage. Etimate for twelve months. Estimate for ten months STREET OPENING EXPENSES. Expense of commissioners in opening streets. Estimate for twelve months. Estimate for tree months. Estimate for twelve months. Estimate for twelve months. WORK HOUSE DEPARTMENT.	\$40,000.00 2,500.00 900.00 800.00 300.00 200.00 200.00 100.00 \$45,000.00	\$37,500,00 ·
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs. Maps and plats. Livery Postage. Etimate for twelve months. Estimate for ten months STREET OPENING EXPENSES. Expense of commissioners in opening streets. Estimate for twelve months. Estimate for tree months. Estimate for twelve months. Estimate for twelve months. WORK HOUSE DEPARTMENT.	\$40,000,00 2,500,00 900,00 800,00 300,00 200,00 200,00 100,00 \$45,000,00 \$3,600,00	\$37,500,00 ·
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs. Maps and plats. Livery Postage. Etimate for twelve months. Estimate for ten months STREET OPENING EXPENSES. Expense of commissioners in opening streets. Estimate for twelve months. Estimate for tree months. Estimate for twelve months. Estimate for twelve months. WORK HOUSE DEPARTMENT.	\$40,000.00 2,500.00 900.00 800.00 300.00 200.00 200.00 100.00 \$45,000.00 \$3,600.00	\$37,500,00 ·
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs. Maps and plats. Livery Postage. Etimate for twelve months. Estimate for ten months STREET OPENING EXPENSES. Expense of commissioners in opening streets. Estimate for twelve months. Estimate for twelve months. STREET OPENING EXPENSES. Expense of commissioners in opening streets. WORK HOUSE DEPARTMENT. Salaries Clothing and bedding. Provisions Horse feed	\$40,000,00 2,500,00 900,00 800,00 300,00 200,00 100,00 \$45,000,00 \$3,600,00 \$3,600,00 4,500,00	\$37,500,00 ·
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs. Maps and plats. Livery Postage. Etimate for twelve months. Estimate for ten months STREET OPENING EXPENSES. Expense of commissioners in opening streets. Estimate for twelve months. Estimate for twelve months. STREET OPENING EXPENSES. Expense of commissioners in opening streets. WORK HOUSE DEPARTMENT. Salaries Clothing and bedding. Provisions Horse feed	\$40,000,00 2,500,00 900,00 800,00 300,00 200,00 100,00 \$45,000,00 \$3,600,00 \$3,600,00 4,500,00 750,00 2,500,00	\$37,500,00 ·
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs. Maps and plats. Livery Postage. Etimate for twelve months. Estimate for ten months STREET OPENING EXPENSES. Expense of commissioners in opening streets. Estimate for twelve months. Estimate for twelve months. STREET OPENING EXPENSES. Expense of commissioners in opening streets. WORK HOUSE DEPARTMENT. Salaries Clothing and bedding. Provisions Horse feed	\$40,000.00 2,500.00 900.00 800.00 200.00 200.00 100.00 \$45,000.00 \$3,600.00 3,000.00 4,500.00 2,500.00 200.00	\$37,500,00 ·
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs. Maps and plats. Livery. Postage. Etimate for twelve months. Estimate for ten months. STREET OPENING EXPENSES. Expense of commissioners in opening streets. Estimate for twelve months. Estimate for ten months. WORK HOUSE DEPARTMENT. Salaries Clothing and bedding. Provisions	\$40,000,00 2,500,00 900,00 800,00 300,00 200,00 100,00 \$45,000,00 \$3,600,00 \$3,600,00 4,500,00 750,00 2,500,00	\$37,500,00 ·
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc. Instruments and repairs. Maps and plats. Livery Postage. Etimate for twelve months. Estimate for ten months STREET OPENING EXPENSES. Expense of commissioners in opening streets. Estimate for twelve months. Estimate for ten months WORK HOUSE DEPARTMENT. Salaries Clothing and bedding. Provisions Horse feed. Fuel and lights. Medical expense Incidentals. Estimate for twelve months.	\$40,000.00 2,500.00 900.00 800.00 200.00 200.00 100.00 \$45,000.00 \$3,600.00 3,000.00 4,500.00 2,500.00 200.00	\$37,500,00 \$3,000.00
Estimate for 10 months. CITY ENGINEER'S DEPARTMENT. Salaries Special tax expenses Stationery and supplies Blank books, blanks, etc Instruments and repairs. Maps and plats. Livery Postage. Etimate for twelve months. Estimate for ten months. STREET OPENING EXPENSES. Expense of commissioners in opening streets. Estimate for twelve months Estimate for ten months. WORK HOUSE DEPARTMENT. Salaries Clothing and bedding. Provisions Horse feed. Fuel and lights. Medical expense. Incidentals.	\$40,000,00 2,500,00 900,00 800,00 300,00 200,00 100,00 \$45,000,00 \$3,600,00 \$3,600,00 4,500,00 750,00 2,500,00 200,00 1,000,00	\$37,500,00 ·

HEALTH DEPARTMENT.

Salaries Scavenger service. Printing, stationery and incidentals. Fuel and repairs at crematory. Rent and repairs of dumps. Disinfecting for poor people. Quarantine hospital (including salaries, lights, fuel, food and medical services). Estimate for twelve months.	\$15.000.00 2,000.00 1,000.00 2,000.00 2,000.00 1,000.00 2,000.00	
Estimate for the months.	620,000,00	\$20,833.34
CITY HOSPITAL EXPENSE.		
Salaries Fuel. Lights. Rent. Provisions Dry goods. Drugs and surgical appliances. Incidentals. Repairs, etc. Estimate for twelve months.	\$3,300.00 1,100.00 550.00 960.00 4.500.00 600.00 1,300.00 600.00 1,000.00	
Estimate for ten months	\$10,010.00	\$11,591.67
POOR DEPARTMENT.		
Groceries Fuel County farm Burials Transportation Bethany Home Private hospitals Special bill voted by supervisors of poor Medicine Incidentals Stationery Salary of superintendent of poor. Salary of clerk of superintendent of poor	\$12,000.00 5,000.00 7,500.00 2,700.00 2,600.00 4,000.00 3,000.00 2,000.00 500.00 100.00 1,500.00 900.00	
Estimate for twelve months. Estimate for ten months.	\$42,000.00	\$35,000.00
MUNICIPAL COURT.		
Salaries. Labor and repairs. Printing and stationery. Rent. Fuel and lights. Furniture, etc. Incidentals.	\$11,480.00 500.00 600.00 1,500.00 250.00 200.00 500.00	
Estimate for twelve months. Estimate for ten months.	\$15,030.00	\$12,525.00
ASSESSOR'S DEPARTMENT.		Ψ1.,Θ.,σ.,σ.
Assessor's salary Fourteen deputy assessors. Two clerks. One engineer. Printing and books Supplies, stationery and postage. Sundry expenses. Board of equalization. Clerk board of equalization	\$2,000,00 4,000,00 1,700,00 300,00 550,00 100,00 1,000,00 250,00	
Estimate for twelve months. Estimate for ten months.	\$10,500.00	\$8,750.00
BUILDING INSPECTOR'S DEPARTMENT.		
Salary of inspector. Salary of clerk Salary of assistant inspectors. Maps, books, etc Incidentals	\$2,000.00 600.00 5,500.00 400.00 500.00	
Estimate for twelve months. Estimate for ten months.	\$9,000,00	\$7,500.00

CITY HALL EXPENSE.

Janitor Elevator attendant Engineer Assistant engineer Fuel Repairs and supplies Fireman, nine months at \$50 Estimate for twelve months Estimate for ten months Incidentals. \$500 per month for ten months Election expenses, fall of 1890 Contingent fund for 1890. STATIONERY AND PRINTING, Publishing council proceedings. Incidentals.	1,000.00 800.00 4,500,00	\$8,975,00 \$5,000,00 \$22,500,00 \$10,000,00
Estimate for twelve months. Estimate for ten months.	\$9,000.00	\$7,590.00
POUNDS,		, , ,
Eight poundmasters, \$500 per annum	\$4,000.00 200.00	
Estimate for twelve months. Estimate for ten months.	\$4,200.00	\$2,500.00
		ψ, ,000.00
ROADS AND BRIDGES. Five bridge watchmen, \$500 per annum	\$2,500.00 \$600.00 2,900.00	
Estimate for twelve months.	\$6,000.00	## 000 00
Estimate for ten months		\$5,000.00
RECAPITULATION OF ESTIMATES.		
Fire department	Twelve months,	Ten months.
Fire department. Police department. Lighting streets. Salaries of city officials. City engineer's department Street opening expense. Workhouse department. Health department. City hospital expense. Poor department. Municipal court Assessor's department Building inspector's department City hall expense. Incidentals. Election expenses, fall 1890 Contingent fund. Stationery and printing Pounds. Roads and bridges.	\$317,837.00 252,232.00 170,000.00 71,966.00 45,000.00 3,600.00 20,950.00 25,000.00 13,910.00 42,000.00 15,030.00 10,500.00 10,770.00 6,000.00 22,500.00 10,000.00 4,200.00 6,000.00	\$272,671.50 217,276.67 144,666.67 59,971.67 37,500.00 17,458.34 20,833.34 11,591.67 35,000.00 12,525.00 8,750.00 7,500.00 8,975.00 5,000.00 10,000.00 7,500.00 10,000.00 7,500.00 10,000.00 7,500.00 10,000.00 5,000.00
Workhouse department. Health department. City hospital expense. Poor department. Municipal court Assessor's department. Building inspector's department City hall expense. Incidentals. Election expenses, fall 1890. Contingent fund. Stationery and printing Pounds Roads and bridges. Total estimates. Total estimates on account of the general fund for 10 months	252,232,00 170,000,00 71,966,00 45,000,00 20,950,00 25,000,00 13,910,00 42,000,00 10,500,00 9,000,00 10,770,00 6,000,00 22,500,00 10,000,00 9,000,00 9,000,00 4,200,00	\$3,941.67 \$7,550.00 \$3,000.00 17,458.34 20,833.34 11,591.67 \$5,000.00 12,525.00 8,750.00 8,975.00 5,000.00 22,500.00 7,500.00 3,500.00 3,500.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00
Workhouse department. Health department. City hospital expense. Poor department. Municipal court Assessor's department. Building inspector's department City hall expense. Incidentals. Election expenses, fall 1890. Contingent fund.	252,232,00 170,000,00 71,966,00 45,000,00 3,600,00 20,950,00 25,000,00 13,910,00 42,000,00 10,500,00 9,000,00 10,770,00 6,000,00 10,000,00 9,000,00 10,000,00 10,000,00 10,000,00 10,000,00 10,000,00 10,000,00 10,000,00 10,000,00 10,000,00 10,000,00 10,000,00 10,000,00 10,000,00 10,000,00 10,000,00	59,941.67 37,550.00 3,000.00 17,458.34 20,833.34 11,591.67 35,000.00 8,750.00 8,750.00 5,000.00 22,500.00 10,000.00 7,500.00 3,500.00 3,500.00 5,000.00
Workhouse department. Health department. City hospital expense Poor department. Municipal court Assessor's department Building inspector's department City hall expense. Incidentals. Election expenses, fall 1890 Contingent fund. Stationery and printing Pounds Roads and bridges. Total estimates Total estimates on account of the general fund for 10 months of the fiscal year ending January 1st, 1891 Estimated deficiency, March 1, 1890	252,232,00 170,000,00 71,966.00 45,000,00 20,950.00 25,000.00 13,910.00 42,000.00 10,500.00 9,000.00 10,770.00 6,000.00 10,000.00	\$9,941.67 \$7,500.00 \$3,000.00 \$17,458.34 \$20,833.34 \$11,591.67 \$35,000.00 \$12,525.00 \$7,500.00 \$7,500.00 \$9,975.00 \$0,000.00 \$10,000.00 \$7,500.00 \$3,500.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00
Workhouse department. Health department. City hospital expense. Poor department. Municipal court Assessor's department. Building inspector's department City hall expense. Incidentals. Election expenses, fall 1890 Contingent fund. Stationery and printing Pounds Roads and bridges. Total estimates Total estimates on account of the general fund for 10 months of the fiscal year ending January 1st, 1891 Estimated deficiency, March 1, 1890	252,232,00 170,000,00 71,966.00 45,000,00 20,950.00 25,000.00 13,910.00 42,000.00 10,500.00 9,000.00 10,770.00 6,000.00 10,000.00	\$9,941.07 \$7,500.00 \$3,000.00 \$17,458.34 \$20,833.34 \$11,591.67 \$5,000.00 \$12,525.00 \$7,500.00 \$9,975.00 \$10,000.00 \$22,500.00 \$10,000.00 \$5,000.00 \$5,000.00 \$908,219.86 \$908,219.86
Workhouse department. Health department. City hospital expense. Poor department. Municipal court Assessor's department. Building inspector's department City hall expense. Incidentals. Election expenses, fall 1890 Contingent fund. Stationery and printing Pounds Roads and bridges. Total estimates on account of the general fund for 10 months of the fiscal year ending January 1st, 1891 Estimated deficiency, March 1, 1890 REVENUE ACCOUNT—GENERAL FUNI Receipts from all sources other than taxes for the year ending August 31st, 1889: Licenses. Municipal court. Rents.	252,232,00 170,000,00 71,966,00 45,000,00 3,600,00 20,950,00 25,000,00 13,910,00 10,500,00 10,770,00 6,000,00 10,770,00 4,200,00 4,200,00 4,200,00 4,200,00 4,200,00 5,036,495,00	59,941,67 37,500,00 3,000,00 17,458,34 20,833,34 11,591,67 35,000,00 12,525,00 8,750,00 8,975,00 22,500,00 10,000,00 22,500,00 10,000,00 3,500,00 \$908,219,86 65,000,00

APPROPRIATIONS FOR 1890.

MINNEAPOLIS, October 4, 1889.

To the Honorable City Council:

Gentlemen—The undersigned, your standing committee on ways and means, to whom was referred the communication of the city comptroller, submitting estimates for the various departments on account of the general fund, respectfully report that they have given the question a careful and thorough investigation, and recommend the passage of the following resolution, fixing the maximum to be expended in the various departments on account of the general fund, for the fiscal year ending January I, 1891. We have carefully considered the demands and the necessities of the various departments and the reductions we have made will not impair the efficiency of any of the departments; and we further recommend that the the expenditures of the various departments be so regulated as to cover the entire time intended to be covered by the appropriation, and to give such service as shall be commensurate with the demands of the departments, and at the same time keep within their appropriations.

Respectfully submitted,
EMERSON COLE,
C. P. LOVELL,
F. C. BARROWS,
VINCENT REEVES,
Committee.

Section 10, chapter 5, city charter: "Prior to its levying such tax to defray the current expenses of the city for the next fiscal year, said city council shall by resolution, appropriate a certain sum of money for the expenses of said department of the city government, which is to be paid out of said current expense fund, and no more money than thus appropriated shall be expended for any fiscal year for any such department of the city government."

Resolved by the City Council of the City of Minneapolis; That the maximum to be expended for the several purposes named below on account of the general fund for the fiscal year ending January 1, 1891, be fixed at the following amounts:

Fire department salaries. Fire department general expense.	\$173,334 40,000	0049 994
Police department salaries Police department general expense	\$158,334 12,500	\$213,334
Street lighting Salaries of city officials. Engineer's department. Street opening expense Work house. Health department City hospital. Poor department Municipal court. Assessor's department Building inspector's department. City hall expense Incidentals. Election expenses, fall of 1890. Contingent fund. Stationery and printing. Pounds. Roads and bridges.		170,834 141,667 59,972 35,417 2,500 16,667 10,000 33,334 112,525 8,750 6,667 8,975 5,000 22,500 10,000 3,500 3,500
Total. Fire department improvement, viz. Two new fire engines. Two new hose carts. Water tower truck. Sixteen horses. Eight thousand feet hose. Police department improvement, viz. New patrol boxes. Furnishing new stations.	\$10,000 1,600 5,000 4,720 8,000 	\$790,809 29,320
Patrol wagon and horses. Total.	1.000	\$838,129

STATEMENT IN DETAIL

OF THE

BONDED DEBT, \$6,486,500.

OF THE CITY OF MINNEAPOLIS, MINN., JANUARY 1ST, 1890.

BOND LIMIT.

The city of Minneapolis is restricted in all legislative acts authorizing the

issue and sale of bonds, and is required to keep within the following limit: "From the total issue of all city bonds shall be deducted the total amount of funds and securities in the sinking fund, and this balance shall not exceed five (5) per centum of the aggregate value of the taxable property of the city as assessed and determined for the purpose of taxation."

DATE.	Issued for-	Numbers.	Each bond.	Time, years Rate of interest.	When due.	Total.
Aug. 1, 1871 Aug. 1, 1873 July 30, 1872 Aug. 1, 1873 Aug. 15, 1872 Aug. 26, 1872 Sept. 24, 1872 Nov. 1, 1881 July 1, 1873 July 1, 1885 Oct. 15, 1887 May 15, 1889 Oct. 15, 1889	School, W. D	1- 7 1- 6 82- 83- 1- 6 84- 85- 88- 88- 88- 92- 96 491- 512 451- 490 1,994-1,983 3,639-3,688 4,504-4,628 4,904-4,978	1,000 1,000 b 500 f 1,000 200 b 300 c 1,000 b 1,000 c 500 f 1,000 c 1,000 1,000 1,000 1,000 1,000	20 8 18 8 20 10 19 8 20 10 20 10 20 10 20 10 20 10 20 10 22 10 30 4 430 4 430 4	July 1, 1891 Aug, 1, 1891 July 30, 1892 Aug. 1, 1892 Aug. 15, 1892 Aug. 26, 1892 Sept. 24, 1892 Nov. 1, 1892 April 1, 1893 July 1, 1899 July 1, 1899 July 1, 1915 Oct. 15, 1917 May 15, 1919 Oct. 15, 1919	\$7,000 6,000 1,500 6,000 1,500 1,500 2,500 5,000 40,000 50,000 125,000 75,000 \$423,000
Oct. 2, 1882 Oct. 14, 1882 Nov. 1, 1882 Nov. 2, 1882 Feb. 2, 1882 May 1, 1882 April 19, 1882 Oct. 16, 1882 Oct. 9, 1880 Oct. 9, 1880 Nov. 17, 1881	School dist. No. 1	1- 1- 5 6 7- 8 1- 15 1- 18 1- 5 6 11 12 1	1,000 5,000 5,000 1,000 1,000 1,000 5,000 3,500 500 1,000	10	Oct. 2, 1892 Oct. 14, 1892 Nov. 1, 1892 Nov. 2, 1892 Feb. 2, 1892 May 1, 1892 May 1, 1892 April 19, 1892 Oct. 15, 1892 Oct. 9, 1890 Oct. 9, 1890 Nov. 17, 1891	1,000 5,000 5,000 10,000 1,000 2,000 25,000 3,500 1,000 2,000
June 30, 1883 Jan. 1, 1884 July 1, 1884 July 1, 1884 July 1, 1884 May 1, 1889 Nov. 1, 1889	Parks	1- 200 201- 300 301- 426- 455 426- 455 456- 523 524- 623 624- 698	1,000 1,000 1,000 1,000 1,000	$\begin{array}{c c} 30 & 4\frac{1}{2} \\ 30 & 4\frac{1}{2} \\ 4\frac{1}{2} \end{array}$	June 30, 1913 Jan. 1, 1914 July 1, 1914 July 1, 1914 July 1, 1914 May 1, 1919 Nov. 1, 1919	\$71,000 \$200,000 100,000 125,000 30,000 68,000 100,000 75,000 \$698,000
July 1, 1887 July 1, 1887	Old city hall New city hall and c't h'se New city hall and c't h'se New city hall and c't h'se	1- 100 1- 25 26- 50 51- 250	1,000 1,000	30 41/2	Feb. 2, 1894 July 1, 1917 July 1, 1917 July 1, 1917	\$50,000 25,000 25,000 200,000 \$300,000
Dec. 1, 1885 Dec. 15, 1886	Library fundLibrary fund	2,094-2,153 2,309-2,384		$\begin{vmatrix} 30 & 41/2 \\ 30 & 4 \end{vmatrix}$	Dec. 1, 1915 Dec. 15, 1916	\$60,000 40,000 \$100,000

Bonded Debt of the City of Minneapolis—Continued.

DATE.	Issued for-	Numbers.	Each bond.	Time, y'rs.	Rate of in- terest.	When due.	Total.
Feb. 1, 1871 Feb. 2, 1874 July 1, 1872 July 1, 1872 April 1, 1882 July 2, 1883 May 1, 1885 July 15, 1886 April 1, 1887 Aug. 1, 1888		1- 110 151- 270 111- 150 1- 50 604- 728 1.104-1,633 2.154-2.273 3.209-3.538 3.739-3.908	500 500 1,000 500 1,000 1,000 1,000 1,000 1,000	20 25 30 30 20 30 30 30 30 30 30	8 8 7 8 4½ 4½ 4½ 4 4 4	July 2, 1913	\$55,000 60,000 40,000 25,000 125,000 30,000 120,000 330,000 170,000
April 1, 1887 Aug. 1, 1888 Dec. 15, 1888 Feb. 1, 1889 May 15, 1889	** ** **	3,009-3,158 3,909-4,063 4,154-4,203 4,204-4,303 4,754-4,803	1,000 1,000 1,000 1,000 1,000	30 30 30 30 30	4 4 4 4	April 1, 1917 Aug. 1, 1918 Dec. 15, 1918 Feb. 1, 1919 May 15, 1919	\$150,000 155,000 50,000 100,000 50,000 \$505,000
Mar. 1, 1884 Mar. 15, 1884	Falls improvement Viaducts and R. R. Cros'g General purposes imp	121- 169 1,504-1,555 1,556-1,603 1- 20	500 1,000 1,000 1,000	18 30 30 30	8 4½ 4½ 7	July 1, 1890 Mar. 15, 1914 Mar. i5, 1914 July 1, 1902	\$24.500 52,000 48,000 20,000
Dec. 2, 1872 Feb. 2, 1874 May 1, 1875 Feb. 15, 1887 July 1, 1885 April 1, 1882 Mar. 15, 1889	Bridges over Mississippi	1- 250 251- 270 271- 320 2,349-2,738 1,984-2,093 729- 804 4,304-4,333	1,000 1,000 1,000 1,000 1,000 1,000 1,000	20 20 30 30 30 30 30 30 30	8 8 4 4 4 4 ¹ / ₂	Dec. 2, 1892 Feb. 2, 1894 May 1, 1905 Feb. 15, 1917 July 1, 1915 April 1, 1902 Mar. 15, 1919	\$144,500 \$250,000 20,000 50,000 390,000 110,000 76,000 30,000 \$926,000
July 1, 1871 July 1, 1872 July 1, 1872 July 1, 1881 Aug. 1, 1888	Sewers	1- 25 26- 50 51- 80 514- 563 4,064-4,153	1,000 1,000 500 1,000 1,000	25 30 30 25 30	7 8	July 1, 1896 July 1, 1902 July 1, 1900 July 1, 1906 Aug. 1, 1918	\$25,000 25,000 15,000 50,000 90,000
July 1, 1881 April 1, 1882 April 2, 1883 Mar. 15, 1884 May 1, 1885 July 15, 1886 April 1, 1887 April 1, 1887 Aug. 15, 1887 May 1, 1887 Mar. 15, 1889 May 15, 1889 June 20, 1889	Permanent improvem'ts	564- 603 805- 969 970-1,103 1,384-1,428 1,429-1,503 1,634-1,903 2,274-2,308 2,739-3,008 3,159-3,208 3,589-3,638 4,334-4,503 4,629-4,753 4,804-4,903	1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000	27 20 30 30 30 30 30 30 30 30 30 30 30 30 30	41/2 41/2 41/2 41/2 41/2 41/2 41/2 4 4 4 4 4	July 1, 1908 April 1, 1902 / April 1, 1902 / April 2, 1913 July 2, 1913 Mar. 15, 1914 May 1, 1915 July 15, 1916 April 1, 1917 Aug. 15, 1917 Dec. 1, 1917 Mar 15, 1919 May 15, 1919 June 20, 1919	\$205,000 40,000 165,000 134,000 45,000 270,000 270,000 50,000 100,000 100,000 \$1,629,000
Sept. 1, 1887 Nov. 15, 1877 Nov. 1, 1871	Ry. Aid, M. & St. L. Ry. Co 	251- 281 282- 350 351- 400 1- 250	1,000 / 500 (20 20 30	7	Sept. 1, 1897 Nov. 15, 1897 Nov. 1, 1901	\$1,629,000 31,000 94,000 125,000 \$250,000

Exhibit I.

Recapitulation of the bonded indebtedness of the city of Minneapolis, January 1, 1890, showing the aggregate sum issued for different purposes:

School bonds	\$494,000
Park bonds	698,000
City hall and court house bonds	300.000
Library fund	100,000
Water works	1,235,000
Permanent improvement revolving fund	505,000
Falls improvement	24,500
Viaducts and railroad crossings	100,000
General purposes improvement	20,000
Bridges over the Mississippi	926,000
Sewers	205,000
Permanent improvements	1,629,000
Railway aid Minneapolis & St. Louis railway company	250,000

\$6,486,500

Exhibit J.

Recapitulation of the bonded indebtedness of the city of Minneapolis, January 1, 1890, showing the aggregate amount maturing each year:

Amount o	f bonds	that mature in	1890	. \$26,000
""		**	1891	
66		4.	1892	
**		**	1893	
	**	**	1894	
	6.		1896	
		**	1897	
		••	1899	
			1900	
**	••	**	1901	
	**		1902	
			1902 or 1912.	
	••	**	1905	
**		**	1906	
••	**	**	1908	
		**	1913	
••		••	1914	
••	••	**	1915.	
		**	1916	195,000
**	••	4.	1917	
	••	**	1918	
••	••		1919	

\$6,486,500

Exhibit K.

Recapitulation of the bonded debt of the city of Minneapolis January 1st, 1890, showing the total amount issued at the different rates of interest, and the average rate of interest on the total bonded debt.

\$3,190,000 o	f the	bonded debt	draws int. a	t 4	per cent	., payable	simi-annually.
2,223,000	44	**	**	41/2	* "	******	**
85,500	6.6	**	**	5	**	**	
3,000	6.0	**	**	51/6	**	**	**
40,000	6.6	66	6.6	6	**	**	**
363,000	6.6	. 46	64	- 7	**	**	**
570,000	6.6	44	4.6	8	**	**	**
12,000	64	6.6	. 46	10	4.6	46	**

\$6,486,500

Average rate of interest, 4.73 per cent.

Exhibit L.

The following statement shows the per cent. of increase in the bonded debt and the assessed valuation for eleven years beginning with 1879:

			1	Per cent.				Per cent.
1879,	bonded debt,	increase.		3.6-10.	Asssessed	valuation.	increase	 19.3- 5
1880,	**	**				**		
1881.	6+	9.6		4.1-10.		6.6	4.6	 4.
1882,	44			00 4 40		44		 25.2- 5
1883.	4.6			25.7-10.		46		
1884.	4.6	6.6		27.5-10.		6 0		 37.4- 5
1885.	4.4			23.1-10.		64 ,		 4.1- 5
1886.	6.6			23,3-10.		**		 28.1- 2
1887.	4.4	6+		29.		6.5	4.6	0.9 10
1888.	6.6	6.6		14.1- 2.		6.5	4.4	 16.9-10
1889.	4.0	6.6		17.1- 5.		66	4.4	 7-10 of 1

Exhibit M

Shows in detail the date, amount, rate, time, the purpose for which issued, the price paid, by whom purchased, and the average premium paid on all bonds issued and sold during the year 1889.

1889.	Am'nt of issue.	Rate.	Time, yr's.	Issued for.	Price paid for each \$1,000 b'nd	By whom purchased.
Feb. 1 Mch. 15 Mch. 15 May 1 May 15 May 15 Jun. 20 Oct. 15 Nov. 1	30,000 170,000 100,000 125,000 125,000 50,000 100,000 75,000	4 4 4 4 4 4 4 4 4 4	30 30 30 30 30 30 30	B'rd education fund Permanent imp.fund	1,010.22.89 1,013.97 1,013.97 1,013.97 1,026.39	Municip'l Investm't Co., Chicago, Ill. R. L. Day & Co., Boston, Mass. R. L. Day & Co., Boston, Mass. Coffin & Stanton, New York. Brewster, Cobb & Eastabrook, Bost'n Blake Bros. & Co., Boston, Mass. Blake Bros. & Co., Boston, Mass.

Average premium on year's sale, 92-100 of 1 per cent. Issue of February I, selling at discount, 1 474-1000 per cent. Issue of June 20, selling at premium, 2.639-1000 per cent.

SINKING FUND.

RECEIPTS AND DISBURSEMENTS FOR THE TWELVE MONTHS ENDING DECEM-BER 31, 1889.

HOW CREATED.

A tax of one mill shall be levied upon the assessed valuation of the city for the purpose of creating a fund for the redemption of the bonds or debt of the city as they become due.

Tax levied 1889 for 1890. \$127,101.86

SINKING FUND.

Provided by an act of the legislature of the state of Minnesota for the redemption of the bonds or debt of the city of Minneapolis. Chapter 5, section 13 and 14 city charter.

Section 13. The city council shall also at the same time levy upon all the taxable property in said city, such taxes as shall be sufficient to pay the interest to become due during such next fiscal year upon all the bonds or debt of said city, and an additional tax of one mill on a dollar of the assessed valuation of all such taxable property, to provide for the principal of said bonds or debt when the same shall have become due, and the amounts collected pursuant to this section shall not be applied to any other purpose than herein named: but this restriction shall not prohibit the investment of the sinking fund hereinafter provided for.

Sec. 14. In order to provide for the certain payment of the bonds and debts of the city, the city council is authorized to maintain the sinking fund already established, and to provide by ordinance for the care, investment and security thereof, and from time to time to amend such ordinances in such manner as may be necessary or expedient, but shall have no authority to abolish such sinking fund until all the debts of the city are fully paid, nor shall it divert said fund or any revenue or increase thereof to any other

purpose.

^{*}Only \$41,000 sold. Balance held by park board as collateral for temporary loan.

The substantial maintenance of the provisions of this and the preceding section, for the payment of the principal and interest of the bonds or debt of said city, is hereby declared to be part of the contract with the holder of any bonds of the city that may hereafter be issued and shall be kept inviolate.

An Act of the Legislature of the State of Minnesota Creating a Board of Sinking Fund Commissioners.

Section 1. That the mayor, comptroller and treasurer of the city of Minneapolis, and their successors in office, be and hereby are appointed a board of sinking fund commissioners, for the purpose of taking charge of, controlling and directing the investment and disbursement of the sinking funds appropriated, or hereafter to be appropriated, to the extinguishment of the debt of said city or either of the divisions thereof.

BOARD OF SINKING FUND COMMISSIONERS.

E. C. Babb, Chairman. Eder H. Moulton, Treasurer. John F. Calderwood, Secretary.

SINKING FUND.

							Receipts.					
Ton	1	1880	Bv	halance	in	the	hands	of	the	treasurer	TC.	H

Jan. 1, 1889. By balance in the hands of the treasurer, E. H. Moulton	\$8,787.50 8,787.50 23,236.19 93,561.67 3,162.87	\$425,823.01
Total receipts		\$137,535.73
Total		\$563,358.74
Disbursements.		
May 1, 1889. To paid fire department bonds, issued May 1, 1874, 25 years, 8 per cent., \$500 each, Nos. 41-64. To paid Falls Imp. bonds, issued July 1, 1872, 27 years, 8 per cent., \$500 each. Nos. 176-199. To paid school district No. 119, bonds Nos. 9-10, 8 per cent., \$500 each.	\$12,000.00 15,000.00 1,000.00	
Total disbursements		\$28,000.00
Jan. 1, 1890, Balance in the hands of E. H. Moulton, treasurer of sinking fund commissioners		\$ 535,358.74
Exhibit N.		
SECURITIES IN THE SINKING FUND.		
Bonds of the City of Minneapolis— Nos. 1,535 to 1,555 inclusive, 4½ per cent interest. Nos. 491 to 512 "5" "" Nos. 1,504 to 1,534 "4½ "" Nos. 1,556 to 1,603 "4½ "" Nos. 1,174 to 1,208 "4½ "" Nos. 1,174 to 2,043 "4" "" Nos. 3,539 to 3,638 "4" "" Nos. 4,054 to 4,153 "4" ""	\$21,000.00 22,000.00 31,000.00 48,000.00 60,000.00 100,000.00	
Total bonds Security bank certificate of deposit No, 69,222, dated September 17, 1888; interest at 5 per cent per annum Security bank certificate of deposit No. 71,220, dated December 27, 1888; interest at 5 per cent per annum Security bank certificate of deposit No. 75,449, dated July 29, 1889; interest at 4 per cent per annum Security bank certificate of deposit No. 78,124, dated December 12, 1889; interest at 4 per cent per annum City bank certificate of deposit No. 10,311, dated July 29, 1889; interest at 5 per cent per annum First National bank certificate of deposit No. 147,874, dated July 29, 1889; interest at 4 per cent per annum	\$5,342.90 3,480.11 30,000.00 10,950.37 29,797.86 \$38,787.50	\$417,000.00 \$118,358.74
Total		\$535,358.74

LIBRARY FUND.

RECEIPTS AND DISBURSEMENTS FOR THE TWELVE MONTHS ENDING DECEMBER 31, 1889.

HOW CREATED.

A tax not to exceed 5-10 of 1 mill shall be levied upon all the taxable property of the city, sufficient to maintain and govern the public library of the city for the next fiscal year.

LIBRARY FUND.

Receipts.	,	
SUBSCRIPTIONS-		
R. C. Benton.	\$100.00	
George H. Rust	250.00	
Samuel C. Gale	500.00	
T. B. Casey	125.00	
J. E. Bell	250.00	
A. R. Graves. C. McC. Reeve, treasurer Athenæum.	10.00	
C. McC. Reeve, treasurer Athenæum	8,000.00	
Gale & Co	250.00	
Chas. J. Martin	250.00	
W. H. Dunwoody, in full. M. B. Koon.	375.00	
M. B. KOON,	250.00	
F. H. Peavy. " "	375.00	
John F. Peterson, " " T. P. Walker " "	25.00	
T. B. Walker, " "	3,750.00	
C. G. Goodrich, ""	3,750.00	
The Degree	3,750.00 125.00	
Clinton Morrison. " T. B. Casey C. A. Pillsbury & Co.	2,500,00	
L. F. Menage	125.00	
Estate of H. O. Hamlin	500.00	
R. B. Langdon	1.000.00	
E. M. Johnson.	250.00	
Howe Paige.	25,00	
F. G. Corser.	10.00	
W. H. Eustis.	500.00	
A. B. Hall.	50.00	
Total		\$27,095,00

TAXES-		
Collected on account levy of 1885 by county treasurer	\$61.79	
1886	437.09	
	2,523,44	
1888 " "	34.149.65	
Total	03,130,00	\$37,171,97
		4011212101
Interest and Penalties-		
Interest allowed in settlement with county tractures	\$118,76	
Interest allowed in settlement with county treasurer Penalties	733,33	
Total	1 - 3 - 3 - 3 - 3	\$852,09
		\$00m,00
SUNDRIES		
Insurance premiums returned by F. M. Johnson	\$12.75	
" " J Thompson Jr	10.00	
Insurance premiums returned by E. M. Johnson	10.00	
settlement of taxes	25,000,00	
Total.	W17.000.00	\$25,022,75
		Thirth Union (1)
Total receipts		\$90,141.81
		T.O. TATIVIT

Disbursements.

BUILDING ACCOUNT— O. T. Erickson. superintendent of construction \$910.00 Winslow Bros. & Co., contract stairs, etc. \$1,000.00 H. Chalker, contract stone work. \$2,000.00 H. Chalker, contract stone work. \$2,000.00 H. Chalker, contract stone work. \$2,000.00 H. S. Martin. contract heating appartaus. \$10,200.00 H. S. Martin. contract heating appartaus. \$10,200.00 A. S. Huey, electric light. \$70,000 A. S. Huey, electric light. \$70,000 E. C. Cauvet, plumbing. \$12,000 The Pioneer Fire Proof Construction Co. roofing. \$1,500.00 The Pioneer Fire Proof Construction Co. roofing. \$1,500.00 Stahl & Wirtz, covering pipe. \$1,500.00 Stahl & Wirtz, covering pipe. \$1,500.00 Stahl & Wirtz, covering pipe. \$1,500.00 Hugh Retcham & Co., iron work bookcases. \$1,500.00 Haugh Retcham & Co., iron work bookcases. \$1,500.00 James Sacre, grading. \$1,500.00 James Sacre, grading. \$1,500.00 J. M. Locke, painting. \$1,500.00 J. M. Locke, painting. \$1,500.00 Stanling Benner, lighting fixtures. \$1,500.00 Stanlineapolis Stone Co., furniture and decorations. \$2,885.00 Stranklin Benner, lighting fixtures. \$3,500.00 Stone Light and Power Co., service. \$1,500.00 Stone Light and Power Co., service. \$1,500.00 Stanlineapolis Stamp Co., stamps. \$1,500.00 Stamp Co., stamps. \$1,500.00 Stanlineapolis Stamp Co., stamps. \$1,500.00 Stone Light and Power Co., service. \$1,500.00	BUILDING ACCOUNT—		
FURNITURE	O. T. Erickson, superintendent of construction	\$910.00	
FURNITURE	Winslow Bros. & Co., contract stairs, etc	9,900.00	
FURNITURE	H. Chalker, contract stone work	2,500.00	
FURNITURE	H. E. Selden, contract wood work	29,500.00	
FURNITURE	Poman A Dabrowski wood work	14.750.00	
FURNITURE	A. S. Huev, electric light	700.00	
FURNITURE	E. C. Cauvet, plumbing	1,600.00	
FURNITURE	W. H. Norris, plastering	2,925.00	
FURNITURE	The Pioneer Fire Proof Construction Co., roofing	5,450.00	
FURNITURE	Johnson Electric Service Co	1,800.00	
FURNITURE	Hugh Ketcham & Co. iron works	8.000.00	
FURNITURE	Hugh Ketcham & Co., iron work bookcases	6,814.00	
FURNITURE	Jacob Fjelde, statue	1,000.00	
FURNITURE	Crane Elevator Co., elevator	1,425.00	
FURNITURE	James Sacre, grading	279.54	
FURNITURE	Minneapolis Gas Light Co., fixtures	49.20	
FURNITURE	A shosting Stone Sidewalk Co	2.618.35	
FURNITURE	Franklin Benner, lighting fixtures.	3,000,00	
FURNITURE	-		\$104,791.06
S. F. Heath & Co. type-writing table \$27.00			
Section Sect	FURNITURE—	### 00	
Section Sect	S. F. Heath & Co., type-writing table	\$24.00	
Section Sect	Minneapolis School and Office Furniture Co	3,500,00	
Lighting	minneapons school and Onice Furniture Co	9,,,00,,00	\$6.015.50
Library our aut, sundries 108 13.44 C. T. Thompson 13.44 C. D. Whitall & Co., blanks and stationery 89.82 Minneapolis Stamp Co., stamps 8.25 19.82 8.25 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 19.00 112.00			40,020100
Library our aut, sundries 108 13.44 C. T. Thompson 13.44 C. D. Whitall & Co., blanks and stationery 89.82 Minneapolis Stamp Co., stamps 8.25 19.82 8.25 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 19.00 112.00	CONTRY OFF		
Library our aut, sundries 108 13.44 C. T. Thompson 13.44 C. D. Whitall & Co., blanks and stationery 89.82 Minneapolis Stamp Co., stamps 8.25 19.82 8.25 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 19.00 112.00	LIGHTING-	The same of the sa	422.00
Library our aut, sundries 108 13.44 C. T. Thompson 13.44 C. D. Whitall & Co., blanks and stationery 89.82 Minneapolis Stamp Co., stamps 8.25 19.82 8.25 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 19.00 112.00	Edison Light and Power Co., service	1	\$22.88
Library our aut, sundries 108 13.44 C. T. Thompson 13.44 C. D. Whitall & Co., blanks and stationery 89.82 Minneapolis Stamp Co., stamps 8.25 19.82 8.25 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 19.00 112.00		()	
Library our aut, sundries 108 13.44 C. T. Thompson 13.44 C. D. Whitall & Co., blanks and stationery 89.82 Minneapolis Stamp Co., stamps 8.25 19.82 8.25 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 8.5 19.82 19.00 112.00	SUPPLIES-	041	
G. E. Steckert	Library bureau, sundries	\$534.47	
G. E. Steckert	C. T. Thompson.	// 13.44	
G. E. Steckert	C. D. Whitall & Co., blanks and stationery.	89.82	
G. E. Steckert	Minneapolis Stamp Co., stamps	8.25	
G. E. Steckert	Herbert Putnam, sundries	79.82	
G. E. Steckert	Fred Bryonet sundries	0.00	
G. E. Steckert	Geesaman & Murphy printing	112.00	
G. E. Steckert	Tribune Job Printing Soc. printing	535.41	
G. E. Steckert	Fairbanks, Morce & Go., truck and scales.	49.77	
G. E. Steckert	Janney Bros., hardware	7.95	
G. E. Steckert	N. W. Star Oil Co., oil.	8.10	
G. E. Steckert	T. M. Roberts, hardware	2.90	
G. E. Steckert	Harrison & Smith printing	175.00	
G. E. Steckert	J. W. Lansing sundries	13.00	
G. E. Steckert	McDonald Bros, lamp	3.50	
G. E. Steckert	30,000		\$1,646.93
G. E. Steckert	Doore		
BINDING	BOOKS—	01 010 00	
BINDING	S. M. Williams	1 221 50	
BINDING	Ed. Maybridge	125.00	
BINDING	C. C. Thompson	83,00	
BINDING	D. Appleton & Co	75.00	
BINDING	Mrs. W. H. McCauley	5.00	
BINDING	Virginia Historical Society	40.00	
BINDING	American Historical Society	7.00	
BINDING	C. D. Whitall & Co.	5.125.00 1.851.24	
BINDING	Frank H. Page	15.00	
BINDING	Miss Jessie Paine	3,50	
BINDING	W. H. C. Folsom	5.00	
BINDING	D. E. Bogart	19.00	
BINDING	W. Arnold	2.00	00 200 MO
BINDING		STATE A SEC. No. of the second supplied and our oak	DO,390.70
Harrison & Smith. binding books \$282.23 P. Ringer & Co., binding books 167.90 H. C. Travis, binding books 309.39 \$759.52	BINDING-		
P. Ringer & Co., binding books. 167.99 H. C. Travis, binding books. 309.39 #759.52 FUEL— V. Truesdell, fuel	Harrison & Smith, binding books	\$282.23	
FUEL— V. Truesdell, fuel	P. Ringer & Co., binding books.	167.90	
FUEL— \$18.00 V. Truesdell, fuel. \$18.00 M. T. Bowen Fuel Co., fuel. 112.50 Minnesota Wood Supply Co., fuel. 50.00	H. C. Travis, binding books	309.39	0000 00
V. Truesdell, fuel			\$109,52
V. Truesdell, fuel	FUEL-		
M. T. Bowen Fuel Co., fuel	V. Truesdell, fuel	\$18.00	
Minnesota Wood Supply Co., fuel	M. T. Bowen Fuel Co., fuel.	112.50	
\$180,50	Minnesota Wood Supply Co., fuel	50.00	0400 50
		****	¥180,50

SALARIES— Herbert Putnam, salary G. S. Gregory, salary. A. P. Goodwin, salary. K. Heiberg, salary. Josephine Cloud, salary Louise I. Lynskey, salary Jessie McMillan, salary. Mrs. M. C. Norton, salary. Gratia Countryman, salary. C. A. Atherton, salary	\$2,083,26 680,00 175,00 250,00 250,00 225,00 140,00 135,00 90,00 34,00	\$4,062.26
Insurance— J. Thompson, Jr		\$140.77
Incidentals— John Baxter, rent C. A. Atherton, labor. W. A. James, taxes. Geesaman & Murphy, printing. Douglas Volk, expressage. Herbert Putnan, sundries. C. F. Dubay, hauling. C. A. Heffelfinger, boxes. John McCarthy, hauling. Allen Bros., supplies. Cedar Lake Ice Co., ice L. A. Runge, sundries. E. M. Johnson, sundries.	\$280.00 120.50 62.54 13.50 1.00 158.46 35.87 1.05 3.25 7.25 7.10 107.60 48.25	\$846.37
L. Runge, salary J. Ludlum, salary	\$288.00 52.50	\$340.50
Total disbursements		\$127,202.99
$Recapitulation. \ \ $		
January 1, 1889, By balance on hand	c () ()	\$48,965.54 90,141.81
January 1, 1890, To disbursements for twelve months.	,,	\$139,107.35 \$127,202.99
January 1, 1890, By balance on hand age, seem seems and age.		\$11,904.36

289,137.57

\$3,494.36

CITY PARK FUND.

RECEIPTS AND DISBURSEMENTS FOR THE TWELVE MONTHS ENDING DECEMBER 31, 1889.

HOW CREATED.

A tax not to exceed 1 mill shall be levied upon all the taxable property of the city sufficient to defray the current expense of maintaining the public park system of the city for the next fiscal year.

Tax levied 1889, for 1890, 5-10 mill. Tree planting, special tax.		2,676.00
Special asssessments		7,304.60
Receipts.		
BONDS— Proceeds of bonds, \$100,000 sold Coffin & Stanton. Proceeds of bonds, \$41,000 sold Blake Bros. & Co.	\$101,022.89 41,116.67	
TAXES— March settlement with county treasurer. June settlement with county treasurer.	\$14,542.55 79,156.81 2,489.11	\$142,139.56
November settlement with county treasurer. Proceeds of notes discounted	2,489.11	\$96,188.47 36,000.00
E. A. Stevens, secretary, sundry collections. W. G. Nye, secretary, balance contingent fund. W. G. Nye, secretary, on account privileges at Lake Calhoun State treasurer, balance of purchase money state park, Minne-	\$355.80 500.00 200.00	
haha, returned W. G. Nye, secretary, privileges at Lake Calhoun "rent of boats" "Central park.	7,716.94 200.00 1,750.00 461.55	
" " privileges at Minnehaha park sundry collections. Refund of warrants cancelled per resolution of park commissioners	326.75 589.20	
Refund of taxes Sale of lot 5, block 39, St. Anthony addition.	1,500.00	\$ 15,564.14
Total receipts		\$289,892.17
Disbursements.		
Payment of interest on bonds, salaries and expenses. Payment temporary loans. Purchase of land Park improvements and maintenance. Trees and tree planting. Tools, implements and furniture. Paid to state treasurer and refunded by him. Secretary's contingent fund.	\$37,901.88 21,000.00 105,138.44 100,382.82 3,375.34 12,622.15 7,716.94 1,000.00	
Total disbursements		\$289,137.57
$Recapitulation. \ \ $		
January 1, 1889, By balance on hand		\$2,739.76 289,892.17
January 1, 1890. To disbursements for twelve months		\$292,631.93 289 137 57

January 1, 1890, To disbursements for twelve months.....

January 1, 1890, Credit balance.....

SCHOOL FUND.

RECEIPTS AND DISBURSEMENTS FOR THE TWELVE MONTHS ENDING DECEMBER 31, 1889.

HOW CREATED.

A tax not to exceed 3 mills shall be levied upon all the taxable property of the city, sufficient to defray the current expense of the public schools of the city of Minneapolis, together with 1 mill of the 2 mill state tax, also per capita of the state school fund.

for 1890, 3 mill. for 1890, 1 mill.	127,101.86
· ·	
	9509 007 OF

The apportionate paid by the state from the state school fund 1889, was \$78,646,82.

SCHOOL FUND.

Receipts.

Proceeds of notes discoutlement of taxes, 1890	nted, same being advance on June set-		\$302,624.99
March settlement from contents that apportionate of settlement from contents. June settlement from contents from contents from contents from contents from the front from contents from the from the front from the front from the front from the front fro	ounty treasurer nool fund nty treasurer on county treasurer nool fund	\$80,123.73 19,254.40 5,866.66 942.04 307,875.86 10,246,42 59,392.00	
Bonds-	_		\$483,701.11
Proceeds of \$125,000, 4 per & Estabrook Proceeds of \$75,000, 4 per of	cent., 30 years, sold to Brewster, Cobb ent., 30 years, sold to Blake Bros. & Co	\$126,829.58 76,781.25	\$203,610.83
Refund of warrants cand W. S. Pearson, secretary Refund on teachers' pay	.19,083-19,124 elled. tuition. rolls ay rolls sale of seats sale of carpet sale of blackboard. refund insurance premium. sundry items sale Washington school bell. sale of old building	\$24.00 173.00 403.30 155.10 2.50 21.00 10.00 7.75 4.50 15.33 693.40 110.50	\$1,620.3 8
Total receipts			\$991,557.31

Disbursements.

RUNNING EXPENSE—		
Interest account	\$11,322,65	
	3,832.95	
Incidentals		
Supplies. Repairs	5,508.75	
	17,816.11	
Janitors	29,826.45	
Insurance	3,658,43	
Office Expense	1,700,00	
Superintendent of buildings	3,294.04	
Teachers.	338,424.90	
Rent	1,648.00	
Apparatus.	2.440.76	
	25,422,39	
Fuel and lights	20,422.09	@444.00F.40
_		\$444 ₉ 895.43
Improvements—		
Madison school	\$26,360.87	
Monroe school	16,014.39	
Real estate	27,200.00	
Holland school.	243.85	
Furniture	11,663,64	
Seward school.	359.86	
Adams school	500.00	
North Side High school	1,824.40	
Greeley school	398.93	
Coreoran school	21,817.59	
Grant school.	31,754.20	
Clinton school.	32,137.48	
Minnehaha school.	15,777.49	
Hamilton school	13,509.80	
Advance for water mains and sewers	4,409.10	
and the for water mains and sewers	1,100.10	\$203,971.60
		Φωυθ, 311.00
BILLS PAYABLE-		
Notes discounted being advance on June, 1889, settlement of		
taxes		\$309,500.00
Total disbursements		\$958,367.03

Recapitulation.		
January 1, 1890, By receipts for twelve months		\$991,557.31
January 1, 1000, By receipts for twerve months	Ø9 709 60	Φ991,991.01
January 1, 1889, To balance overdrawn	\$3,703.69	
January 1, 1890, To disbursements for twelve months	958,367.03	0.00 080 80
		962,070.72
January 1, 1890, By balance on hand		\$29,486.59

 $E_{X}hibit$ O. SUMMARY YEARLY BALANCE SHEET

TUAL BALANCES IN Y HANDS OF CTTY TREASURER. Jan. I. 1880.	Credit.	811,909,93 91,548,13 67,426,33 67,426,33 179,64 1
-Actual Balances in Hands of City Treasurer. Jan. I. 1890.	Debit.	56.736.738.8 41.081 56.108 56.
ants unpaid. I same to ev. snee or deduct n dr. balanee.	rrsW bbA slsd rorr	85.00 1,788.37 22,788.37 84.1.98 84.1.98 1,295.91 1,295.91 645.00 645.00
NCES Y 1, 1890.	Credit.	811,994,865,39 134,786,89 14,686,39 14,686,39 14,686,39 15,131,38 16,121,48 16,121,48 16,121,48 17,100,38 17,100,38 18,121,38
BALANCES JANUARY I. 1800	Debit.	844.388.47 748.91 4.157.06 417.69
CES OF	Credit.	839.07 991.08 991.08 991.08 992.08 993.08
TOTALS, INCLUDING BALANCES OF JANUARY 1, 1889.	Debit.	815, 202, 206, 207, 207, 207, 207, 207, 207, 207, 207
IPTS AND IENTS FOR AR 1889.	Credit.	\$6.141.98 \$6.141
NET RECEIPTS AND DISBURSEMENTS FOR THE YEAR 1889.	Debit.	88.88.99.98.99.99.99.99.99.99.99.99.99.9
LEDGER BALANCES JANUARY 1, 1889.	Credit.	848.965 54 14.782 51 179.558 42 2,579.75 2,579.75 1,682.75 1,682.75 1,682.75 1,682.75 2,094.00 5,194.00 1,781.00 1
LEDGER BALANCE JANUARY I.	Debit.	88.708.68 88.906.63 814.10 87.32 86.35 84.41 84.41 84.41 86.156 84.41 86.156 86.349
		Library fund Board of Education General fund Fermanent Imp. Rund Ferman Imp. Revolving find Nater Works fund Interest fund Interest fund Interest fund Sidewalk Sidewalk Sprinkling Sprink

88.85 9.85 9.85 9.85 9.85 9.85 9.85 8.85 9.85 8.85 9.85 8.85 8			\$442.243.03
97.8			396,804.17
790.53			\$33,363.36 363,440.81
16.73 16.73 344.04 113.60 113.60 113.60 18.18 588.18	8414.729.80		
593.43	\$51,289.08 \$363,440.81	\$414,729.89	·
152.31 622.34 7,735.60 17,676.36 8,838.28 6,6420.36 1,281.28 4,341.12 561.00	\$5,003,681.75	89,566,868.29	
13.43 606.25 7.391.56 18.260.70 5,719.66 5,719.81 1.379.03 3,752.94	\$4,640,240,94 \$4,926,627.35	\$9,566,868.29	
103.00 263.44 7.5549.25 17.253.91 3.113.36 6.213.72 1.189.72 3.210.71 369.60	\$4,720,164,55	89.283.351.09	
13.43 606.23 17.301.56 18.300.70 3.719.00 3.759.09 3.759.09	\$283.517.20 \$4,563,186.54 \$4,720.164.55 \$4,640,240,94 \$5,003,681.75 \$4,720.164.55 \$4,026,627.35 \$4,563,186.54 \$4,563,186.54	\$9,283,351.00 \$9,283,351.00 \$9,566,868.29 \$9,566,868.29	
8.68.5 8.68.5 8.69.5 8 8.69.5 8 8.69.5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	\$283.517.20	\$283.517,20	
	\$77,054.40	\$283.517.20	
10th ward Sidewalk fund 10th "Sprinkling" 11th "Street "Sidewalk" 12th "Sreet 12th "Sreet 12th "Sreet 12th "Sreet 13th "Street 13th "Street	Total thands of treasurer January 1st. 1889 thange treasurer amount of Credit treasurer amount of the Total treasurer amount of the Total treasurer amount of the Total thands of treasurer January 1st. 1890.		Amount of warrants unpaid Cash in hands of treasurer as above, vide city comptroller's books

Exhibit P

Shows the total disbursements on account of the general fund for the twelve months ending January 1, 1890; disbursements for ten months ending January 1, 1890; the amount appropriated; the total expended under the appropriation: the balance to be expended under the appropriation: and the accounts which are overdrawn:

	crara vviii.					
	Disbursements for 12 months ending January 1, 1890.	Disbursements from Jan. 1, 89, to March 1, 89, when the new appro- priation begins.	Disbursem'ts from March 1, 1889, to January I, 1890.	Appropriations fr m March 1, 1889, to March 1, 1890.	Balance of appropriation for mos. of January and Pebruary, 1890.	Appropriation overdrawn.
Police department Fire department. Work house expense Rogineer's department. Poor department. City hall expense Printing and stationery. Municipal court. Health department. Building inspectors. Roads and bridges. Pounds. Salaries of city officials. Street opening expense. City hospital City assessor's departm't. Incidentals. viz. Miscellaneous \$2,933.80 Legal expenses 1.587.64	240,678,53 22,143,28 43,769,28 30,217,09 12,891,32 10,833,76 14,616,16 20,510,56 7,348,72 8,252,86 3,727,48 69,053,727,48 69,053,727,48 157,764,93	1,008.05	\$164,480,10 202,841,18 18,647,43 37,233,90 23,942,59 9,556,55 5,980,56 11,750,03 17,093,59 6,169,27 7,667,20 13,036,39 62,677,10 2,622,50 126,729,17 9,491,76 8,209,70 5,281,54		6.332.57 3.766.10 12.057.41 943.45 1.519.44 2.249.97 2.830.73 1.463.61 2.322.90 877.50 41.270.83 2.908.24	\$93.59 667.01 791.70
Legal expenses 1,587,64 Watering trough repairs 378,23 Election expenses, 389,92						
Total	*\$866,362.87	\$142,870.50	\$723,492.37	\$863,900.00	\$141,959.93	\$1,552.30
*Disbursements for 12 mo forward). Tax penalty refund. Legal damages settled by wit Bethany Home.	suithout suit			\$621.44 \$621.44 1.464.12	\$15.02 2.085.56 2.700.00	\$866,362.87 \$4,800.58
Contingent Fund, created by not to exceed \$\frac{1}{8}\$. Relief Dakota sufferers G. A. R. Memorial Day Interest on note given for Street illumination during Entertainment of Pan-Am Entertainment of Montres	purchase of exposition delegation of the purchase of exposition delegation delegation of the purchase of the end of the e	one year. of Soldiers' a, 1889egation	Home site	··· ·· ·· ··	\$1,400.00 175.00 1,669.80 3,000.00 1,917.15 229.25	\$8,391.20
Authorized b Extra salary of city clerk a J. V. Demott claim vs. Ni V. Reeves claim vs. Tenth Illuminating Nicollet aver Award for the apprehension	wara nue during m of the mu	exposition, irderers of	season 1888 Ed. Tolefso	n	\$1,348.70 1,116.65 1,000.00 4,488.60 1,000.00	* 8.953.95
Refund on plumbers' pe Expense on Edison cond Expense and refund Do Expense N. W. Telepho Expense street railway					1,088.24 1,621.04 3,909.89 1,165.78 1,736.79	\$9,521.74
Refund of M Filbery & McCune W. C. Brix S. Schlukbeier	cat Pedalers	: License.			\$75.00 75.00 75.00	\$225.00
Total						898,255.34
* These items are covered	by credits,	see * folio '	70.			

GENERAL FUND.

RECEIPTS AND DISBURSEMENTS FOR THE TWELVE MONTHS ENDING DECEMBER 31, 1889.

HOW CREATED.

"A tax not to exceed 6-10 of 1 per cent. shall annually be levied upon all the taxable property of the city, which amount in addition to the other revenue of the city, such as licenses, fines, rents, etc., and applicable thereto, shall be sufficient to defray the current running expenses of the city for the next fiscal year, not including the expense of the various boards, and the expense of the several wards which are assessed separately."

REVENUE FOR 1890.—

Tax levied 1889, for 1890, 4.7-10 mills Licenses, fines, rents, etc., (estimated).		\$597,378.75 330,000.00
December		\$927,378.75
Receipts.		
TAXES-	\$1.40 PPO 40	
March settlement from county	\$146,778.42 496,237.04	
June settlement from county	16,763.26	
	10,100.00	\$659,778.72
LICENSES-		
250 liquor, at \$1,000 each Circus and menagerie, one day 4 theatres, 12 months, \$250. 1 theatre and museum, 12 months.	24 200 00	\$250,000.00
Circus and menagerie, one day	\$1,200.00	
1 theatre and museum 12 months	1,000.00 500.00	
	175.00	
5 auctioneers, 12 months, \$200.	1,000.00	
10 mens' intelligence, 12 months, \$150.	1,500.00	
1 mens' intelligence, 6 months	75.00	
5 auctioneers, 12 months, \$200. 10 mens' intelligence, 12 months, \$150. 1 mens' intelligence, 6 months. 161 pool tables at \$5, 12 months.	805.00	
22 pool tables at \$2.50 6 months. 47 two horse hacks at \$10, 12 months.	55.00	
9 " " 7.50, 9 "	470.00 67.50	
5 44 46 5 00 B 46	25,00	
	2.50	
1 " " 2.50, 3 " 19 one " 5.00, 12 " 6 " 3.75, 9 " 3 16 scavengers, at \$16.67. 1 bowling alley, \$12.50, 6 months. 54 wagon peddlers, \$75, 12 months. 2 curiosity halls, at \$5. 141 two horse express, \$10, 12 months. 13 " 7.50, 9 "	95.00	
6 " " 3.75, 9 "	22.50	
3 2.50, 3	7.50	
16 Scavengers, at \$10.67	266.72	
54 wagon neddlers \$75 12 months	12.50 $4.050.00$	
2 curiosity halls, at \$5	10.00	
141 two horse express, \$10, 12 months	1,410.00	
13 " 7.50, 9 "	97.50	
	15.00	
13 2.50, 3 136 one 5.00, 12	32.50 680.00	
14 " " 3.75. 9 "	52.50	
10 " 2.50, 6 "	25.00	
15 " " 1.25, 3 "	18.75	
92 foot peddlers, \$10, 12 months	920.00	
20 foot peddlers, \$5, 6 months. 6 pawn brokers, \$100, 12 months.	100.00	
3 pawn brokers, \$50 6 months	600.00 150.00	
3 pawn brokers, \$50, 6 months. 7 hotel runners, \$25, 12 months.	175.00	
3 hotel runners, \$12.50, 6 months	37.50	
15 ladies' intelligence, \$10, 12 months	150.00	
1 ladies' intelligence, \$12.50 6 months	12.50	
3 hotel runners, \$12.50, 6 months. 15 ladies' intelligence, \$10, 12 months. 1 ladies' intelligence, \$12.50 6 months. 1 ladies' intelligence, \$5, 6 months. 2 shooting gallaries, \$25, 12 months.	5.00 50.00	
6 push earts, \$50, 12 months	300.00	
- paint out to, 400, 10 months in the second of the second	300.00	\$16,170,47
Rent—		\$266,170.47
Western Union Telegraph Co., twelve months, at \$160 per month,		
city hall	\$1,920.00	
city hall	,	
city half	720,00	
street barn	400.00	
street barn	$\frac{480.00}{66.67}$	
	00.07	\$3,186.67
ELECTRIC LIGHT		,
Western Union Telegraph Co., twelve months, at \$25 per month	\$300,00	
N. W. Telephone Exchange Co., twelve months, at \$16.67 per month.	200.04	
Anvarence	.500.04	\$500.04
		quant, the

IMPOUNDING—	\$1.00	
Simon Porter, January to November	17.50 1.50	
IMPOUNDING— T. Smith, fines Simon Porter, January to November. Peter Mohnson, three months. George Loye, March to October. W. O'Brion. April to October. James Lund, May, June and July. E. A. Christianson, April to November. M. Lund, April. Octavius LaFlur, April to November. Martin Peterson, March to October.	$\frac{1.50}{36.75}$	
George Loye, March to October	109.15	
James Land May, June and July.	8.00	
E. A. Christianson, April to November	84.50	
M. Lund, April.	$\frac{1.00}{40.25}$	
Octavius LaFlur, April to November	59.00	
CITY SCALES—		\$358.65
Rufus Roberts, fees, June to December		\$117.45
Municipal Court— January, fines and fees	\$1 465 58	
January, mes and fees	1,793.70	
March, " "	1,575.24	
April, " "	2,003.45	
May,	3.144.03	
July "	4,054.09	
August. " "	3,873.08	
September."	4,165.08 5,160.07	
Voyambar " "	4.651.07	
December, "	3,883.28	
MUNICIPAL COURT— January, fines and fees. February " March, April, " May, " June, July " August. September." October. November " December, " ENGINEER'S PERMITS— *) From January 1, 1889, to January 1, 1890.	90 071 00	\$38,672.67
*) From January 1, 1889, to January 1, 1890. 1 Minneapolis Street Ry. Co., street work.	\$9,071.89 1,409.59	
CITY CLERK—		\$10,481.48
CITY CLERK— May receipts paid into city treasury. June July " " " August " " September " " " October " " November " " " December " " " *Total.	\$4,725.40	
June " " "	670.50 342.00	
July	283.20	
September " " "		
October " " "	232.50	
November " " "	$155.80 \\ 165.70$	
*Total	105.10	\$6,799.70
4,532 male dog licenses, at \$1 each	\$4,532.00	
405 female dog licenses, at \$2 each	810.00	
11,083 chattel mortgages filed, at 10 cents each	1.108.30	
2 144 chattel mortgage satisfactions at 10 cents each	214.40	
2,144 chattel mortgage satisfactions, at 10 cents each 60 plumber licenses at \$2 each	$\frac{214.40}{120.00}$	
2.144 chattel mortgage satisfactions, at 10 cents each 60 plumber licenses at \$2 each	214.40 120.00	
2,144 chattel mortgage satisfactions, at 10 cents each 60 plumber licenses at & each. *Candidates' Fees, Special Election, Eighth Ward— F. E. Hanson, Republican.	214.40 120.00 5.00	
2,144 chattel mortgage satisfactions, at 10 cents each 60 plumber licenses at & each. *Candidates' Fees, Special Election, Eighth Ward— F. E. Hanson, Republican. A. W. Paris, Democratic J. S. Garyin, Prohibitionist	214.40 120.00 5.00 5.00 5.00	
F. E. Hanson, Republican. A. W. Paris, Democratic J. S. Garvin, Prohibitionist	214.40 120.00 5.00 5.00 5.00	
Total.	214.40 120.00 5.00 5.00 5.00 86,799.70	
Total.	\$6,799.70	
Total.	\$6,799.70 \$137,90 150.00	
Total.	\$6,799.70 \$137,90 150.00 2.50	
Total.	\$6,799.70 \$137,90 150.00 2.50 40	
Total.	\$6,799.70 \$137.90 150.00 2.50 40 20 3.00	
Total.	\$6,799.70 \$137.90 150.00 2.50 40 20 3.00	
Total.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00	
Total.	\$6,799.70 \$137.90 150.00 2.50 40 20 3.00 163.75 500.00 32.43	
Total.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20	
Total SUNDRIES— Old warrants cancelled by resolution of city council Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.147 order J. B. Phelps, turned back Error in warrant No. 37.991 order Minn. Brush Elec. Co., corrected Error in warrant No. 37.991 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances. Board of education, printing bonds and advertising. F. L. Stetson, sale of horses F. L. Stetson, sale of harness weights F. L. Stetson, sale of carboys. Refund Mayville Lime & Cement Co., error in bill.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36	
Total SUNDRIES— Old warrants cancelled by resolution of city council Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.147 order J. B. Phelps, turned back Error in warrant No. 37.991 order Minn. Brush Elec. Co., corrected Error in warrant No. 37.991 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances. Board of education, printing bonds and advertising. F. L. Stetson, sale of horses F. L. Stetson, sale of harness weights F. L. Stetson, sale of carboys. Refund Mayville Lime & Cement Co., error in bill.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20	
Sundries— Old warrants cancelled by resolution of city council Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.147 order J. B. Phelps, turned back Error in warrant No. 37.697 order Minn. Brush Elec. Co. corrected Error in warrant No. 37.921 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances. Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, repairing. F. L. Stetson, sale of carboys. Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36	
Sundries— Old warrants cancelled by resolution of city council Warrant No. 3,181 order W. A. Barnes & Co., turned back Warrant No. 3,147 order J. B. Phelps, turned back Error in warrant No. 37,697 order Minn. Brush Elec. Co. corrected Error in warrant No. 37,697 order Minn. Brush Elec. Co., corrected Chas. A. Cornman, sale of city ordinances Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, repairing. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys. Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66	
Sundries— Old warrants cancelled by resolution of city council Warrant No. 3,181 order W. A. Barnes & Co., turned back Warrant No. 3,147 order J. B. Phelps, turned back Error in warrant No. 37,697 order Minn. Brush Elec. Co. corrected Error in warrant No. 37,697 order Minn. Brush Elec. Co., corrected Chas. A. Cornman, sale of city ordinances Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, repairing. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys. Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40	
Total SUNDRIES— Old warrants cancelled by resolution of city council. Warrant No. 3,184 order W. A. Barnes & Co., turned back Warrant No. 3,184 order J. B. Phelps, turned back Error in warrant No. 37,997 order Minn. Brush Elec. Co. corrected Error in warrant No. 37,992 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances. Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys. Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay. Refund from New England Furniture Co., overcharge on lino-	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66	
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Total SUNDRIES— Old warrants cancelled by resolution of city council. Warrant No. 3,184 order W. A. Barnes & Co., turned back Warrant No. 3,184 order J. B. Phelps, turned back Error in warrant No. 37,997 order Minn. Brush Elec. Co. corrected Error in warrant No. 37,992 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances. Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys. Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay. Refund from New England Furniture Co., overcharge on lino-	\$6,799.70 \$137.90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66 115.50	
Old warrants cancelled by resolution of city council. Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.184 order J. B. Phelps, turned back Error in warrant No. 37.997 order Minn. Brush Elec. Co., corrected Error in warrant No. 37.991 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay Refund from New England Furniture Co., overcharge on linoleum for health department. Refund from A. R. Camp, judge of election, fees allowed cierk Refund from Work house pay roll, Auger Taylor. Insurance from Hartford Steam Boiler and Inspection Co.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66 115.50 1.81 9.00 12.00	
Old warrants cancelled by resolution of city council. Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.184 order J. B. Phelps, turned back Error in warrant No. 37.997 order Minn. Brush Elec. Co., corrected Error in warrant No. 37.991 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay Refund from New England Furniture Co., overcharge on linoleum for health department. Refund from A. R. Camp, judge of election, fees allowed cierk Refund from Work house pay roll, Auger Taylor. Insurance from Hartford Steam Boiler and Inspection Co.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66 115.50 1.81 9.00 12.00	
Old warrants cancelled by resolution of city council. Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.184 order J. B. Phelps, turned back Error in warrant No. 37.997 order Minn. Brush Elec. Co., corrected Error in warrant No. 37.991 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay Refund from New England Furniture Co., overcharge on linoleum for health department. Refund from A. R. Camp, judge of election, fees allowed cierk Refund from Work house pay roll, Auger Taylor. Insurance from Hartford Steam Boiler and Inspection Co.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66 115.50 1.81 9.00 12.00	
Old warrants cancelled by resolution of city council. Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.184 order J. B. Phelps, turned back Error in warrant No. 37.997 order Minn. Brush Elec. Co., corrected Error in warrant No. 37.991 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay Refund from New England Furniture Co., overcharge on linoleum for health department. Refund from A. R. Camp, judge of election, fees allowed cierk Refund from Work house pay roll, Auger Taylor. Insurance from Hartford Steam Boiler and Inspection Co.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66 115.50 1.81 9.00 12.00	
Old warrants cancelled by resolution of city council. Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.184 order J. B. Phelps, turned back Error in warrant No. 37.997 order Minn. Brush Elec. Co., corrected Error in warrant No. 37.991 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay Refund from New England Furniture Co., overcharge on linoleum for health department. Refund from A. R. Camp, judge of election, fees allowed cierk Refund from Work house pay roll, Auger Taylor. Insurance from Hartford Steam Boiler and Inspection Co.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66 115.50 1.81 9.00 12.00	
Old warrants cancelled by resolution of city council. Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.184 order J. B. Phelps, turned back Error in warrant No. 37.997 order Minn. Brush Elec. Co., corrected Error in warrant No. 37.991 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay Refund from New England Furniture Co., overcharge on linoleum for health department. Refund from A. R. Camp, judge of election, fees allowed cierk Refund from Work house pay roll, Auger Taylor. Insurance from Hartford Steam Boiler and Inspection Co.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66 115.50 1.81 9.00 12.00	
Old warrants cancelled by resolution of city council. Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.184 order J. B. Phelps, turned back Error in warrant No. 37.997 order Minn. Brush Elec. Co., corrected Error in warrant No. 37.991 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay Refund from New England Furniture Co., overcharge on linoleum for health department. Refund from A. R. Camp, judge of election, fees allowed cierk Refund from Work house pay roll, Auger Taylor. Insurance from Hartford Steam Boiler and Inspection Co.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66 115.50 1.81 9.00 12.00	
Old warrants cancelled by resolution of city council. Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.184 order J. B. Phelps, turned back Error in warrant No. 37.997 order Minn. Brush Elec. Co., corrected Error in warrant No. 37.991 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay Refund from New England Furniture Co., overcharge on linoleum for health department. Refund from A. R. Camp, judge of election, fees allowed cierk Refund from Work house pay roll, Auger Taylor. Insurance from Hartford Steam Boiler and Inspection Co.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66 115.50 1.81 9.00 12.00	
Old warrants cancelled by resolution of city council. Warrant No. 3.181 order W. A. Barnes & Co., turned back Warrant No. 3.184 order J. B. Phelps, turned back Error in warrant No. 37.997 order Minn. Brush Elec. Co., corrected Error in warrant No. 37.991 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay Refund from New England Furniture Co., overcharge on linoleum for health department. Refund from A. R. Camp, judge of election, fees allowed cierk Refund from Work house pay roll, Auger Taylor. Insurance from Hartford Steam Boiler and Inspection Co.	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66 115.50 1.81 9.00 12.00	
Total SUNDRIES— Old warrants cancelled by resolution of city council. Warrant No. 3,184 order W. A. Barnes & Co., turned back Warrant No. 3,184 order J. B. Phelps, turned back Error in warrant No. 37,997 order Minn. Brush Elec. Co. corrected Error in warrant No. 37,992 order C. D. Whitall & Co., corrected Chas. A. Cornman, sale of city ordinances. Board of education, printing bonds and advertising. F. L. Stetson, sale of horses. F. L. Stetson, sale of horses. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of harness weights. F. L. Stetson, sale of carboys. Refund Mayville Lime & Cement Co., error in bill. Refund John S. Bower, error in bill. W. H. Lauderdale, paid taxes on land condemned by the city for street. Refund from police pay roll, Jerry Sullivan January and February pay. Refund from New England Furniture Co., overcharge on lino-	\$6,799.70 \$137,90 150.00 2.50 40 20 3.00 163.75 500.00 32.43 14.37 52.20 65.36 30.40 29.66 115.50 1.81 9.00 12.00	\$2,183.87

Total receipts....

\$988.249.72

Disbursements.

POLICE DEPARTMENT EXPENSES-

Name and Indian	\$179,566.04	
Force salaries. Force salaries. Board of police commissioners salary, January 1, 1889, to April 21, 1889. Board of police commissioners, expense trip to Boston. Board of police commissioners, incidentals. Drugs. Incidentals. Groceries. Handcuffs.	Ø149/900/04	
on toen	888,00	
Day of a find a commissioners arrange trin to Roston	331.04	
Pound of police commissioners, expense trip to Boston	286.00	
During	110.13	
Ineidentals	260.76	
Grownies	69.78	
Handeuffs	70.31	
Meals to prisoners.	70.31 1,001.60	
Handcuffs Meals to prisoners Patrol sleigh and wagon Scavenger services	501.50	
Scavenger services.	46.50	
Scavenger services Livery Laundry Electric supplies Gas bills Feed	110.00	
Laundry	61.30	
Electric supplies	157.87	
Gas bills	1.154.52	
Feed	363,37	
Rent of stations	883,34 993,69	
Printing and attitudence	718.03	
Frinting and stationery	84.49	
Clube holts plotos and goods	408,20	
Paneire control locking	1.039.06	
Inchrange on horses warons harness etc	13.50	
Insurance on hoises, wagons, namess, etc.	18.75	
Special detective service	387.86	
Keening team. No. Minneapolis station.	119.00	
Oil	16.10	
Analysis of wine	12.00	
Telephone service	793.80	
Telegraph service.	139.65	
Surgeons consultation Capt. Bosworth, and examination of		
Officer McLaughlin	101.25	
Stars	25.00	
Helmets	210.00	
Buttons.	105,35	
New Furniture and repairs.	468.25 200.00	
Legal services, Kobinson & Baker	159.71	
Conv. based repairs.	400.00	
Photo of "Crooks"	49.00	
Horseshoing	115.35	
Wagon repairs and painting.	173.95	
Wagon repairs and painting Pay roll, specials, Minneapolis Street Rv. Co. strike	173.95 1,136.00	
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike. Livery, Minneapolis Street Ry. Co. strike.	173.95 1,136.00 391.00	
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike. Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike.	173.95 1,136.00 391.00 24.00	
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike. Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike. Moving 5th precinct station.	173.95 1,136.00 391.00 24.00 76.50	0104 044 77
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike. Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike. Moving 5th precinct station.	173.95 1,136.00 391.00 24.00 76.50	\$194,241.55
Gas bills. Feed Rent of stations Fuel. Printing and stationery Hardware Clubs, belts, plates and cords Repairs central lockup. Insurance on horses, wagons, harness, etc. Insurance on boilers central lockup. Special detective service. Keeping team, No. Minneapolis station. Oil Analysis of wine. Telephone service Telegraph service. Surgeons consultation Capt. Bosworth, and examination of Officer McLaughlin. Stars. Helmets. Buttons. New Furniture and repairs. Legal services, Robinson & Baker. Harness and repairs. Gray horses. Photo of "Crooks". Horseshoeing. Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike. Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike.	1173.95 1,136.00 391.00 24.00 76.50	\$194,241.55
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike. Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike. Moving 5th precinct station. FIRE DEPARTMENT EXPENSE— Salaries. Property surphesed.	\$182,885,23	\$194,241.55
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike. Moving 5th precinct station. FIRE DEPARTMENT EXPENSE— Salaries. Property purchased. Fire alarm telegraph	\$182,885,23 19,987,93	\$194,241.55
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike. Moving 5th precinct station. FIRE DEPARTMENT EXPENSE— Salaries. Property purchased. Fire alarm telegraph. Forage	\$182,885.23 \$19,987.93 \$1,136.00 \$391.00 \$24.00 \$76.50 \$182,885.23 \$19,987.93 \$11,291.66 \$7.406.68	\$194,241.55
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike. Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike. Moving 5th precinct station. FIRE DEPARTMENT EXPENSE— Salaries. Property purchased. Fire alarm telegraph. Forage. Fuel and lights	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01	\$194,241.55
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike. Moving 5th precinct station. FIRE DEPARTMENT EXPENSE— Salaries. Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings.	\$182,885,23 10,987,93 \$1,136,00 391,00 24,00 76,50 \$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28	\$194,241.55
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike. Moving 5th precinct station. FIRE DEPARTMENT EXPENSE— Salaries. Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to buildings. Repairs to apparatus and equipments	\$182,885.23 19,987.93 11,291.66 \$182,885.23 19,987.93 11,291.66 7,406.68 4,754.01 4,205.28 3,071.45	\$194,241.55
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike. Moving 5th precinct station. FIRE DEPARTMENT EXPENSE— Salaries. Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to apparatus and equipments Store room supplies.	\$182,885.23 19,987.93 \$1,136.00 24.00 76.50 \$182,885.23 19,987.93 11,291.66 7,406.68 4,754.01 4,205.28 3,071.45 1,419.13	\$194,241.55
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike. Moving 5th precinct station. FIRE DEPARTMENT EXPENSE— Salaries. Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing.	\$182,885,23 173,95 1,136,00 391,00 24,00 76,50 \$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00	\$194,241,55
Wagon repairs and painting. Pay roll, specials, Minneapolis Street Ry. Co. strike Livery, Minneapolis Street Ry. Co. strike. Rent of bedding, Minneapolis Street Ry. Co. strike. Moving 5th precinct station. FIRE DEPARTMENT EXPENSE— Salaries. Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to buildings. Repairs to apparatus and equipments. Store room supplies. Horseshoeing. Laundry.	\$182,885,23 19,987,93 11,291,66 \$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99	\$194,241.55
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings Repairs to apparatus and equipments Store room supplies Horseshoeing Laundry	\$182,885,23 10,987,93 \$1,136,00 24,00 76,50 \$182,885,23 19,987,93 11,291,66 7,406,68 4,734,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65	\$194,241.55
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings Repairs to apparatus and equipments Store room supplies Horseshoeing Laundry	\$182,885.23 19,987.93 11,291.66 7,406.68 4,754.01 4,205.28 3,071.45 1,419.13 1,405.00 736.99 675.65 570.04	\$194,241.55
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings Repairs to apparatus and equipments Store room supplies Horseshoeing Laundry	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81	\$194,241.55
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings Repairs to apparatus and equipments Store room supplies Horseshoeing Laundry	\$182,885,23 10,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79	\$194,241.55
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings Repairs to apparatus and equipments Store room supplies Horseshoeing Laundry	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 384,00	\$194,241.55
Salaries Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing. Laundry. Telephone rent. Scavenger. Freight and express. Printing and stationery. Ice for seasons of 1888 and 1889. Soft soap.	\$182,885,23 19,987,93 11,291.66 7,406.68 4,754.01 4,205.28 3,071.45 1,419.13 1,405.00 675.65 570.04 485.81 442.79 334.00 376.93	\$194,241.55
Salaries Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to apparatus and equipments. Store room supplies. Horseshoeing. Laundry. Telephone rent. Scavenger Freight and express Printing and stationery. Ice for seasons of 1888 and 1889. Soft soap. Drugs	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 394,00 376,93 163,97	\$194,241.55
Salaries Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to apparatus and equipments. Store room supplies. Horseshoeing. Laundry. Telephone rent. Scavenger Freight and express Printing and stationery. Ice for seasons of 1888 and 1889. Soft soap. Drugs	\$182,885,23 19,987,93 11,291.66 7,406.68 4,754.01 4,205.28 3,071.45 1,419.13 1,405.00 736.99 675.65 570.04 485.81 442,79 394.00 376.93 163.97 163.82	\$194,241.55
Salaries Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to apparatus and equipments. Store room supplies. Horseshoeing. Laundry. Telephone rent. Scavenger Freight and express Printing and stationery. Ice for seasons of 1888 and 1889. Soft soap. Drugs	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 394,00 376,93 163,97 163,82 88,91	\$194,241.55 · · ·
Salaries Property purchased Fire alarm telegraph Forage Fuel and lights Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing Laundry. Telephone rent. Scavenger. Freight and express Printing and stationery Lee for seasons of 1888 and 1889 Soft soap. Drugs. Repairs to harness. Material for new harness. Acid and soda for extinguishers.	\$182,885,23 19,987,93 11,291.66 7,406.68 4,754.01 4,205.28 3,071.45 1,419.13 1,405.00 736.99 675.65 570.04 485.81 442,79 394.00 376.93 163.97 163.82	\$194,241.55
Salaries Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing. Laundry. Telephone rent. Scavenger. Freight and express. Printing and stationery. Ice for seasons of 1888 and 1889. Soft soap. Drugs. Material for new harness. Material for new harness. Acid and soda for extinguishers.	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 384,00 376,93 163,97 163,82 88,91 153,25	
Salaries Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing. Laundry. Telephone rent. Scavenger. Freight and express. Printing and stationery. Ice for seasons of 1888 and 1889. Soft soap. Drugs. Material for new harness. Material for new harness. Acid and soda for extinguishers.	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 394,00 376,93 163,97 163,82 88,91 153,25	
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings. Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing Laundry. Telephone rent. Scavenger. Freight and express Printing and stationery Ice for seasons of 1888 and 1889. Soft soap. Drugs. Repairs to harness. Material for new harness. Acid and soda for extinguishers. WORK HOUSE EXPENSE— Salaries. Groceries and provisions.	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 394,00 376,93 163,97 163,82 88,91 153,25	
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings. Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing Laundry. Telephone rent. Scavenger. Freight and express Printing and stationery Ice for seasons of 1888 and 1889. Soft soap. Drugs. Repairs to harness. Material for new harness. Acid and soda for extinguishers. WORK HOUSE EXPENSE— Salaries. Groceries and provisions.	\$182,885,23 19,987,93 11,291,66 7,406,66 7,406,66 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 384,00 376,93 163,97 163,82 88,91 153,25	
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings. Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing Laundry. Telephone rent. Scavenger. Freight and express Printing and stationery Ice for seasons of 1888 and 1889. Soft soap. Drugs. Repairs to harness. Material for new harness. Acid and soda for extinguishers. WORK HOUSE EXPENSE— Salaries. Groceries and provisions.	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 394,00 376,93 163,97 163,82 88,91 153,25	
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings. Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing Laundry. Telephone rent. Scavenger. Freight and express Printing and stationery Ice for seasons of 1888 and 1889. Soft soap. Drugs. Repairs to harness. Material for new harness. Acid and soda for extinguishers. WORK HOUSE EXPENSE— Salaries. Groceries and provisions.	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 394,00 376,93 163,97 163,82 88,91 153,25	
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings. Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing Laundry. Telephone rent. Scavenger. Freight and express Printing and stationery Ice for seasons of 1888 and 1889. Soft soap. Drugs. Repairs to harness. Material for new harness. Acid and soda for extinguishers. WORK HOUSE EXPENSE— Salaries. Groceries and provisions.	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 394,00 376,93 163,97 163,82 88,91 153,25 \$9,388,71 2,210,63 1,341,06 1,138,60 777,24 694,70 73,79	
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings. Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing Laundry. Telephone rent. Scavenger. Freight and express Printing and stationery Ice for seasons of 1888 and 1889. Soft soap. Drugs. Repairs to harness. Material for new harness. Acid and soda for extinguishers. WORK HOUSE EXPENSE— Salaries. Groceries and provisions.	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 384,00 376,93 163,82 88,91 153,25 \$9,388,71 2,210,63 1,344,06 1,138,60 777,24 694,70 73,79 326,99	
Salaries Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing. Laundry. Telephone rent. Scavenger. Freight and express. Printing and stationery. Ice for seasons of 1888 and 1889. Soft soap. Drugs. Repairs to harness. Material for new harness. Acid and soda for extinguishers. WORK HOUSE EXPENSE— Salaries. Groceries and provisions. Meat Flour Removal of building and repairs. Lumber. Paints. Supplies and repairs to steam heating plant.	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 394,00 376,93 163,97 163,82 88,91 153,25 \$9,388,71 2,210,63 1,341,06 1,138,60 777,24 664,70 73,79 326,99 653,79	
Salaries Property purchased. Fire alarm telegraph. Forage. Fuel and lights Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing. Laundry. Telephone rent. Scavenger. Freight and express. Printing and stationery. Ice for seasons of 1888 and 1889. Soft soap. Drugs. Repairs to harness. Material for new harness. Acid and soda for extinguishers. WORK HOUSE EXPENSE— Salaries. Groceries and provisions. Meat Flour Removal of building and repairs. Lumber. Paints. Supplies and repairs to steam heating plant.	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 394,00 376,93 163,97 163,82 88,91 153,25 \$9,388,71 2,210,63 1,341,06 1,138,60 777,24 664,70 73,79 326,99 653,79	
Salaries Property purchased Fire alarm telegraph Forage Puel and lights Repairs to buildings. Repairs to buildings. Repairs to apparatus and equipments Store room supplies. Horseshoeing Laundry. Telephone rent. Scavenger. Freight and express Printing and stationery Ice for seasons of 1888 and 1889. Soft soap. Drugs. Repairs to harness. Material for new harness. Acid and soda for extinguishers. WORK HOUSE EXPENSE— Salaries. Groceries and provisions.	\$182,885,23 19,987,93 11,291,66 7,406,68 4,754,01 4,205,28 3,071,45 1,419,13 1,405,00 736,99 675,65 570,04 485,81 442,79 384,00 376,93 163,82 88,91 153,25 \$9,388,71 2,210,63 1,344,06 1,138,60 777,24 694,70 73,79 326,99	

Dry goods and clothing	1,241.66	
Horseshoeing and blacksmithing	138.81	
Shoe findings Fuel and lights.	127.33	
Fuel and lights	2.328.94	
Stationery	60.44 21.00	
Stationery. Postage stamps Furniture.	179.12	
Crockery and glassware	65,30	
Drugs Printing reports	171.22	
Printing reports	40.75	
Telephone service	33.00 70.00	
Two cows. Garden seeds and plants. John West, superintendent, sundries.	47.15	
John West, superintendent, sundries,	42.65	
Incidentals	87.83	
T		*22,143.28
Engineer's Department—	\$42,173.71	
Salaries. Stationery and printing.	1,049,22	
Instruments and repairs.	158.15	
Incidentals	63.74	
Blacksmithing	5.18	
Hardware	84.93 59,50	
MapsLivery	106.60	
Malanhau a	21 00	
Postage	27.00	
Postage	20.25	5 to #40 40
		\$43,769.28
Refund Plumber's Permits— Refunded on plumber's permits		\$1,088.24
		11,000.01
STREET LIGHTING— Minneapolis Gas Light Co Minnesota Brush Electric Co Northwestern Globe Gas Light Co Sun Vapor Street Light Co Wheeler Before Co	\$41,677,54	
Minnesota Brush Electric Co.	67.873.02	
Northwestern Globe Gas Light Co	17,442.55	
Sun Vapor Street Light Co	17,147.06	
Wheeler Reflector Co	13.110.14	
moving tamp posts, printing schedule cards, etc	514.62	\$157,764.93
STREET OPENING EXPENSE—		Ф101, 104.90
Services of Commissioners	\$2,695.00	
Taxes paid on land taken	17.50	
SALARIES OF CITY OFFICIALS—		\$2,712.50
Salaries of City Officials— Salary of mayor and thirty-nine aldermen	\$30,080,00	\$2,712.50
Salary of mayor and thirty-nine aldermen	\$30,080,00 \$38,973,42	
Salary of mayor and thirty-nine aldermen	\$38 073 49	\$2,712.50 \$69,053.42
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department—	\$38,973.42	
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department—	\$38,973.42	
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department—	\$38,973,42 	
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department—	\$38,973.42 	
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department—	\$38,973.42 \$8,235,53 10,00 371,39 183,00 14,10	
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates	\$8,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00	
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates. Horse hire.	\$38,973.42 \$8,235,53 10,00 371,39 183,00 14,10	
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates. Horse hire. Incidentals.	\$8,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 125.50	
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates. Horse hire. Incidentals. Contingent Fund— Policy Delayers on Favors.	\$38,973,42 \$8,235,53 10,00 371,39 183,00 14,10 30,00 125,50 5,00	*69,053.42
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates. Horse hire. Incidentals. Contingent Fund— Policy Delayers on Favors.	\$38,973,42 \$8,235,53 10.00 371,39 183,00 14,10 30,00 125,50 5,00 \$1,400,00	*69,053.42
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates. Horse hire. Incidentals. Contingent Fund— Policy Delayers on Favors.	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 125.50 5.00 \$1,400.00 175.00	*69,053.42
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates. Horse hire. Incidentals. Contingent Fund— Policy Delayers on Favors.	\$38,973,42 \$8,235,53 10.00 371,39 183,00 14,10 30,00 125,50 5,00 \$1,400,00	*69,053.42
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates. Horse hire. Incidentals. Contingent Fund— Policy Delayers on Favors.	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 125.50 5.00 \$1,400.00 1,669.80 3,000.00 1,917.15	*69,053.42
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps. Index to unsettled estates. Horse hire. Incidentals. CONTINGENT FUND—	\$38,973,42 \$8,235,53 10,00 371,39 183,00 14,10 30,00 125,50 5,00 \$1,400,00 175,00 1,669,80 3,000,00	\$69,053.42 \$8,974.52
Salary of mayor and thirty-nine aldermen Salary of other city officials ASSESSOR'S DEPARTMENT— Salaries. Leather case for charts Blank books, printing, stationery Correcting atlas and plats Maps Index to unsettled estates Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers G. A. R. Memorial day Interest on notes, soldier's home Appropriation, exposition lights Entertaining Pan American delegates Entertaining Montreal city council CONDUITS, EDISON'S—	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 125.50 5.00 \$1,400.00 1,669.80 3,000.00 1,917.15	*69,053.42
Salary of mayor and thirty-nine aldermen Salary of other city officials ASSESSOR'S DEPARTMENT— Salaries. Leather case for charts Blank books, printing, stationery Correcting atlas and plats Maps Index to unsettled estates Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers G. A. R. Memorial day Interest on notes, soldier's home Appropriation, exposition lights Entertaining Pan American delegates Entertaining Montreal city council CONDUITS, EDISON'S—	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 125.50 5.00 \$1,400.00 1,669.80 3,000.00 1,917.15	\$69,053.42 \$8,974.52
Salary of mayor and thirty-nine aldermen Salary of other city officials ASSESSOR'S DEPARTMENT— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats Maps Index to unsettled estates Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council CONDUITS, EDISON'S— Labor. Sand and gravel	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 125.50 5.00 \$1,400.00 1,669.80 3,000.00 1,917.15 229.25 \$1,326.21 245.55	\$69,053.42 \$8,974.52
Salary of mayor and thirty-nine aldermen Salary of other city officials Assessor's Department— Salaries. Leather case for charts Blank books, printing, stationery Correcting atlas and plats Maps Index to unsettled estates Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers G. A. R. Memorial day Interest on notes, soldier's home. Appropriation, exposition lights Entertaining Pan American delegates Entertaining Montreal city council CONDUITS, EDISON'S— Labor. Sand and gravel. Lumber	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 5.00 \$1,400.00 175.00 1,669.80 3.000.00 1,917.15 229.25 \$1,326.21 245.55	\$69,053.42 \$8,974.52
Salary of mayor and thirty-nine aldermen Salary of other city officials ASSESSOR'S DEPARTMENT— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats Maps Index to unsettled estates Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council CONDUITS, EDISON'S— Labor. Sand and gravel	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 5.00 \$1,400.00 175.00 1,669.80 3.000.00 1,917.15 229.25 \$1,326.21 245.55	\$69,053.42 \$8,974.52 \$8,391.20
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps. Index to unsettled estates. Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day. Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council. CONDUITS. EDISON'S— Labor. Sand and gravel. Lumber. Hardware. CONDUITS. NORTHWESTERN TELEPHONE EXCHANGE—	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 5.00 \$1,400.00 175.00 1,669.80 3.000.00 1,917.15 229.25 \$1,326.21 245.55	\$69,053.42 \$8,974.52
Salary of mayor and thirty-nine aldermen Salary of other city officials ASSESSOR'S DEPARTMENT— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council. CONDUITS, EDISON'S— Labor. Sand and gravel. Lumber. Hardware. CONDUITS, Northwestern Telephone Exchange— Labor.	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 5.00 \$1,400.00 175.00 1,669.80 3.000.00 1,917.15 229.25 \$1,326.21 245.55	\$69,053.42 \$8,974.52 \$8,391.20
Salary of mayor and thirty-nine aldermen Salary of other city officials Assessor's Department— Salaries. Leather case for charts Blank books, printing, stationery Correcting atlas and plats Maps Index to unsettled estates Horse hire Incidentals CONTINGENT FUND— Relief Dakota sufferers G. A. R. Memorial day Interest on notes, soldier's home Appropriation, exposition lights Entertaining Pan American delegates Entertaining Montreal city council CONDUITS, EDISON'S— Labor. Sand and gravel. Lumber. Hardware CONDUITS, NORTHWESTERN TELEPHONE EXCHANGE— Labor. Sand and gravel.	\$38,973,42 \$8,235,53 10.00 371,39 183,00 14,10 30.00 125,50 5,00 \$1,400,00 1,75,00 1,669,80 3,000,00 1,917,15 229,25 \$1,326,21 245,55 46,98 2,30 \$1,004,78 153,75	\$69,053.42 \$8,974.52 \$8,391.20
Salary of mayor and thirty-nine aldermen Salary of other city officials ASSESSOR'S DEPARTMENT— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council. CONDUITS, EDISON'S— Labor. Sand and gravel. Lumber. Hardware. CONDUITS, Northwestern Telephone Exchange— Labor.	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 125.50 5.00 \$1,400.00 175.00 1,669.80 3,000.00 1,917.15 229.25 \$1,326.21 245.55 46.98 2.30	\$8,974.52 \$8,974.52 \$8,301.20
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps. Index to unsettled estates. Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day. Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Montreal city council. CONDUITS. EDISON'S— Labor. Sand and gravel. Lumber. Hardware. CONDUITS, NORTHWESTERN TELEPHONE EXCHANGE— Labor. Sand and gravel. Hardware. MINNEAPOLIS STREET RAILWAY, STREET REPAIRS—	\$38,973,42 \$8,235,53 10.00 371,39 183,00 14,10 30.00 125,50 5,00 \$1,400,00 1,75,00 1,669,80 3,000,00 1,917,15 229,25 \$1,326,21 245,55 46,98 2,30 \$1,004,78 153,75	\$69,053.42 \$8,974.52 \$8,391.20
Salary of mayor and thirty-nine aldermen Salary of other city officials ASSESSOR'S DEPARTMENT— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats Maps Index to unsettled estates Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council CONDUITS, EDISON'S— Labor. Sand and gravel. Lumber. Hardware CONDUITS, NORTHWESTERN TELEPHONE EXCHANGE— Labor. Sand and gravel. Hardware MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor. ———————————————————————————————————	\$38,973,42 \$8,235,53 10.00 371,30 183,00 14,10 30,00 125,50 5,00 \$1,400,00 1,75,00 1,669,80 3,000,00 1,917,15 229,25 \$1,326,21 245,55 46,98 2,30 \$1,004,78 153,75 7,25	\$8,974.52 \$8,974.52 \$8,301.20
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps. Index to unsettled estates. Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day. Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council. CONDUITS, EDISON'S— Labor Sand and gravel. Lumber Hardware. CONDUITS, NORTHWESTERN TELEPHONE EXCHANGE— Labor Sand and gravel. Hardware. MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor	\$38,973,42 \$8,235,53 10.00 371,39 183,00 14.10 30.00 125,50 5,00 \$1,400,00 175,00 1,669,80 3,000,00 1,917,15 229,25 \$1,326,21 245,55 46,98 2,30 \$1,004,78 153,75 7,25	\$8,974.52 \$8,974.52 \$8,301.20
Salary of mayor and thirty-nine aldermen Salary of other city officials ASSESSOR'S DEPARTMENT— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats Maps Index to unsettled estates Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council CONDUITS, EDISON'S— Labor. Sand and gravel. Lumber. Hardware CONDUITS, NORTHWESTERN TELEPHONE EXCHANGE— Labor. Sand and gravel. Hardware MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor. ———————————————————————————————————	\$38,973,42 \$8,235,53 10.00 371,30 183,00 14,10 30,00 125,50 5,00 \$1,400,00 1,75,00 1,669,80 3,000,00 1,917,15 229,25 \$1,326,21 245,55 46,98 2,30 \$1,004,78 153,75 7,25	\$8,974.52 \$8,974.52 \$1,621.04 \$1,165.78
Salary of mayor and thirty-nine aldermen. Salary of other city officials. ASSESSOR'S DEPARTMENT— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps. Index to unsettled estates. Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day. Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council. CONDUITS, EDISON'S— Labor. Sand and gravel. Lumber. Hardware. CONDUITS, NORTHWESTERN TELEPHONE EXCHANGE— Labor. Sand and gravel. Hardware. MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor. Hardware. MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor. Hardware. Sand and gravel. WATERING TROUGHS REPAIRS—	\$38,973,42 \$8,235,53 10.00 371,39 183,00 14.10 30.00 125,50 5,00 \$1,400,00 175,00 1,669,80 3,000,00 1,917,15 229,25 \$1,326,21 245,55 46,98 2,30 \$1,004,78 153,75 7,25	\$8,974.52 \$8,974.52 \$8,301.20
Salary of mayor and thirty-nine aldermen Salary of other city officials ASSESSOR'S DEPARTMENT— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates. Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council. CONDUITS, EDISON'S— Labor. Sand and gravel. Lumber. Hardware. CONDUITS, NORTHWESTERN TELEPHONE EXCHANGE— Labor. Sand and gravel. Hardware MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor. Hardware. Sand and gravel. Hardware. MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor. Hardware. Sand and gravel. WATERING TROUGHS REPAIRS— Labor.	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 125.50 5.00 \$1,400.00 175.00 1,669.80 3.000.00 1,917.15 229.25 \$1,326.21 245.55 46.98 2.30 \$1,004.78 153.75 7.25 \$1,544.59 3.20 189.00	\$8,974.52 \$8,974.52 \$1,621.04 \$1,165.78
Salary of mayor and thirty-nine aldermen. Salary of other city officials. Assessor's Department— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps. Index to unsettled estates. Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day. Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council. CONDUITS, EDISON'S— Labor. Sand and gravel. Lumber. Hardware. CONDUITS, NORTHWESTERN TELEPHONE EXCHANGE— Labor. Sand and gravel. Hardware. MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor. Hardware. Sand and gravel. WATERING TROUGHS REPAIRS— Labor. Sand and gravel. WATERING TROUGHS REPAIRS— Labor. Fountains.	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 125.50 5.00 \$1,400.00 175.00 1,669.80 3.000.00 1,917.15 229.25 \$1,326.21 245.55 46.98 2.30 \$1,004.78 153.75 7.25 \$1,544.59 3.20 189.00	\$8,974.52 \$8,974.52 \$1,621.04 \$1,165.78
Salary of mayor and thirty-nine aldermen Salary of other city officials ASSESSOR'S DEPARTMENT— Salaries. Leather case for charts. Blank books, printing, stationery. Correcting atlas and plats. Maps Index to unsettled estates. Horse hire. Incidentals. CONTINGENT FUND— Relief Dakota sufferers. G. A. R. Memorial day Interest on notes, soldier's home. Appropriation, exposition lights. Entertaining Pan American delegates. Entertaining Montreal city council. CONDUITS, EDISON'S— Labor. Sand and gravel. Lumber. Hardware. CONDUITS, NORTHWESTERN TELEPHONE EXCHANGE— Labor. Sand and gravel. Hardware MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor. Hardware. Sand and gravel. Hardware. MINNEAPOLIS STREET RAILWAY, STREET REPAIRS— Labor. Hardware. Sand and gravel. WATERING TROUGHS REPAIRS— Labor.	\$38,973.42 \$8,235.53 10.00 371.39 183.00 14.10 30.00 125.50 5.00 \$1,400.00 175.00 1,669.80 3.000.00 1,917.15 229.25 \$1,326.21 245.55 46.98 2.30 \$1,004.78 153.75 7.25 \$1,544.59 3.20 189.00	\$8,974.52 \$8,974.52 \$1,621.04 \$1,165.78

Tax Penalty Fund— Tax penalty refunded		\$15,02
Conduits, Dorsett— Labor	\$1,654.70	
Sand and gravel	233,83 2,65	
Lumber	13.04	
Refunded	2,005,67	\$3,909.89
Building Inspector— Salaries	\$6,646.95	
Telephone service	39.15	
Books, blanks, printing and stationery	503.87 20.00	
Telephone service Books, blanks, printing and stationery J. M. Hazen—Railroad fare and other expense to Chicago New York	117.00	
Incidentals	21.75	\$7.348.72
CLAIMS AGAINST THE CITY OF MINNEAPOLIS, AUTHORIZED BY ACTS OF THE STATE LEGISLATURE:-		
Illuminating Nicollet avenue, season 1888. Award for the apprehension of the murderers of Ed. Tollefson,	\$4,488.60	
Award for the apprehension of the murderers of Ed. Tollefson, J. V. DeMott claim vs. Ninth ward	1,000.00 1,116.65	
J. V. DeMott claim vs. Ninth ward. V. Reeves claim vs. Tenth ward.	1,000.00	.te (0) = 2=
SALARIES, ETC., AUTHORIZED BY AN ACT OF THE LEGISLATURE—		\$7,605.25
Chas. F. Haney, city clerk, eight months at \$25 per month Miss R. M. Reed, clerk in city clerk's office, eight months at \$70	\$200.00	
per month	560,00	
per month. L. G. Cosad, clerk in city clerk's office, eight months at \$65 per month.	520.00	
Mrs. E. J Sturtzel, clerk city clerk's office	68.70	Data and accounts
ROADS AND BRIDGES-		\$1,348.70
Salaries, bridge watchmen	\$3,215.26 $1,652.05$	
" others	2,972.00	
FuelPainting signs	112.35 27.00	
Sprinkling bridges.	236.00	
Stars for bridge watchmen	$\frac{3.00}{35.20}$	
ELECTIONS—		\$8,252.86
Balance due on election, November, 1888	\$74.50 1,315.42	04.000.00
SALARY AND POUNDS EXPENSE—		\$1,389.92
Pay roll, poundmasters	\$3,521.68 144.35	
Feed.	7.20	
Feed.	54.25	
BBETHANY HOME-		\$3,727.48
Amount paid from fines under provision of city charter		\$2,70 \.00
Printing and Stationery Expense— Printing and stationery, mayor, comptroller, treasurer, city		
clerk Publishing council procedings, per contract	\$1,436.10 5,767.91	
Re-setting, printing, indexing and binding council proceedings		
Re-setting printing indexing and binding council proceedings prior to 1889 Printing bonds and checks	$3,247.00 \\ 382.75$	
License Refunds—		\$10,833.76
Tilburg and McCune, meat peddlers	\$75.00	
W. C. Bix, meat peddler E. Schlukebier, meat peddler	75.00 75.00	
		\$225.00
CITY HALL EXPENSE— Salaries of regular employees	\$4,232,27	
Salaries of engineer's department, for extra labor	455.70 300.00	
Insurance	326,36	
Drugs and chemicals. Ice bills, seasons 1888 and 1889 Covering steam pipe, city clerk's office.	34.65 315.00	
Covering steam pipe, city clerk's office. Electric supplies for electric plant	10.56	
Fuel, city hall	765.23 3,779.03	
Hardware Telephone service	175.32 12.00	
Letter chute	10.00	
Oil. Hauling rubbish Soap and soap stock.	95,99 18,00	
Soap and soap stock	28,53	

Brooms, brushes and mops	$\frac{35.00}{1.070.56}$.	
New furniture and repairing old Lumber. Repairs to engine room and boilers, (result of explosion) damage covered by insurance).	429.00 102.56	
Repairs to engine room and boilers, (result of explosion) dam-		
age covered by insurance)	570.37 125.19	
Incidentals.	1.50.15	\$12,891.33
7		
Municipal Court Expense Salaries	\$11,249,61	
Salaries Gas bills	54.36	
IncidentalsBooks, blanks, printing and stationery	$\frac{11.95}{718.05}$	
New furniture and repairing old	40.75	
Law books	67.00	
Meals to jurors. Ice, seasons 1888 and 1889.	4.55 49,00	
Repairing. Rent of municipal court (fifteen months at \$1.500 per annum)	314.84	
Rent of municipal court (fifteen months at \$1.500 per annum)	$\frac{1,875.00}{33.00}$	
Telephone service R. A. Daly, clerk, for sundries	42.15	
Fuel.	143.40	
Insurance	12.50	\$14,616.1
		Ф14,010.1
Legal Expenses and Damages-	9100 00	
Office rent	\$126.67 43.90	
Printing briefs	220.20	
Printing briefs. Printing briefs on U. S. Supreme Court cases. Costs of suits.	582.95	
Costs of suits. Furniture, office	55,47 11,00	
Securing evidence, witness fees, etc.	160.80	
Fees, recording	204.72	
Fees, transcripts. Stationery.	137.68 34.25	
Law books.	10.00	
Law books. Swanson, Johnson, injured in sewer construction	525.00	
C. P. Enstad, damages overflow of sewer C. Boucher, damage oxerflow of sewer	$80.00 \\ 117.75$	
P. S. Pasha, damages overflow of sewer. Mrs. George Wilson, injury by fire department. W. S. Holl, by by fire department.	25,00	
Mrs. George Wilson, injury by fire department	$150.00 \\ 25.00$	
David Tice, injury by fire department	112.00	
Suit, Harden vs. city, costs supreme court	50.05	
Suit Cyrus E. Hall vs. city.	298.04 323.40	
Suit, St. Anthony Falls W. P. Co. vs. city, costs supreme court	151.20	
James Byrnes, in full for damages overflow of sewer	50.00	
Mrs. George Wilson, Injury by fire department. W. S. Hall, injury by fire department. David Tice, injury by fire department. Suit, Harden vs. city, costs supreme court. Suit, Cyrus E. Hall vs. city. Suit, Cyrus E. Hall vs. city. Suit, St. Anthony Falls W. P. Co. vs. city, costs supreme court. James Byrnes, in full for damages overflow of sewer. G. I. Maynard, in full for damages to buggy. Henry A. Mitchell, in full for damages to borses and back. Swan Invyal damage straightening Passett's Creek. 1883.	5,00 25,00	
Swan Ingval, damage straightening Bassett's Creek, 1883 Edward Wickstrom, money taken from him by Capt. Harvey.	60.00	
Edward Wickstrom, money taken from him by Capt. Harvey, of police force	00 10	
or ponce force	88.12	\$3,673.2
Progratulation Local expenses	DI MOM AL	
Recapitulation—Legal expense. Legal damages settled by suit	$ \begin{array}{r} \$1,587.64 \\ \hline 621.44 \end{array} $	
Legal damages settled without suit	1.464.12	
	49 879 90	
	\$3,673.20	
POOR DEPARTMENT—	(h) 4(1) 1)2	
Groceries	\$2,483.32 7,399.64	
Salaries. Groceries Fuel.	2,894.25	
Medicines	166.61	
Board of Poor, Hennepin county poor farm.	389,25 6,196,03	
" " Homoeopathic hospital	763.01 267.64	
Deaconess hospital	267.64 $1,071.19$	
" " Northwestern hospital	142.59	
" " Northwestern hospital St. Mary's hospital	52.29	
" Northwestern hospital " St. Mary's hospital " St. Barnabas hospital " St. St. St. Mary and St. Marnabas hospital " St. St. St. Marnabas		
Name in a	3,597.58	
Namino	3,597.58 52.29 1,858.66	
Number	3,597.58 52,29 1,858.66 523.00	
Nursing. Transportation Livery. Burials Digging graves at quarantine bosnital	3,597.58 52,29 1,858.66 523.00 1,711.00	
Nursing. Transportation Livery. Burials Digging graves at quarantine hospital. Remairs, quarantine hospital.	3,597,58 52,29 1,858.66 523.00 1,711.00 144.75 266.64	
Nursing. Transportation. Livery. Burials. Digging graves at quarantine hospital. Repairs, quarantine hospital.	3,597,58 52,29 1,858.66 523.00 1,711.00 144.75 266.64 40.00	
Nursing. Transportation Livery Burials Digging graves at quarantine hospital	3,597,58 52,29 1,858.66 523.00 1,711.00 144.75 266.64	

INCIDENTALS—	0441.40	
Commissions paid National Park Bank, N. Y	\$441.40 17.25	
Towel Exchange. Postage stamps. Telephone service, city treasurer and city clerk. Express paid on bonds. License tags. Expense of committee to Sault Ste. Marie. Expense of committee to Superior, Wis. water ways. Extra compensation to Frank Gaylord, elevator attendant, running elevator nights. Microscope for meat inspector. Twenty-five city directories. Telegrams. Hand stamps. Certified copies of special laws. F. De Harven, extra compensation as sidewalk inspector. E. H. Moulton, city treasurer, postage, telegrams, etc. Killing dogs, per report dog-catcher. Livery.	23.40	
Posta of stamps	39.75	
Telephone service, city treasurer and city clerk	63.00	
Express paid on bonds	67.50	
License tags	107.50	
Expense of committee to Sault Ste. Marie	75.00	
Expense of committee to Superior, Wis., water ways	30.00	
Extra compensation to Frank Gaylord, elevator attendant,	(0.00	
Microscope for most inconcator	60,00 50,00	
Twenty-five city directories	125.00	
Talagrams	24.17	
Hand stamps.	45.70	
Certified copies of special laws	28.75	
F. DeHarven, extra compensation as sidewalk inspector	263.23	
E. H. Moulton, city treasurer, postage, telegrams, etc	54.89	
Killing dogs, per report dog-catcher	706.00	
Livery	$91.00 \\ 300.26$	
T Front Power expert accountant examining the books of the	900.20	
Livery Sundries J. Frank Perry, expert accountant, examining the books of the various departments.	320.00	
		\$2,933.80
CITY HOSPITAL EXPENSE—	40.055	
Salaries	\$3,320.35	
Surgical instruments and appliances	95.86	
Milk Drugs, wines and liquors.	961.58	
Groceries.	1,786.99 1,631.22	
Flour	269.50	
Meat	905.35	
Vegetables	53.90	
Vegetables. Dry goods and clothing. Fuel	190.56	
Fuel.	845.87	
tras pilis	603.90	
Stationery and printing. New furniture and repairing old.	38.70	
Straw	17.50	
Hardware	80.22	
Repairs and building	228.63	
Seavenger service	99.00	
Board of patients.	14.42	
Rent	1,040.00	
Rent	$1,040.00 \\ 35.00$	
Rent Telephone service. Ground flax seed and oil meal.	1,040.00	
Rent Telephone service	$\begin{array}{c} 1,040.00 \\ 35.00 \\ 72.00 \end{array}$	\$12,337.32
Rent Telephone service. Ground flax seed and oil meal. Incidentals. EXPENSES HEALTH DEPARTMENT	1,040.00 35.00 72.00 22.17	\$12,337.32
Rent Telephone service Ground flax seed and oil meal. Incidentals. Expenses Health Department Salaries.	1,040.00 35.00 72.00 22.17 	\$12 ,337.32
Rent Telephone service. Ground flax seed and oil meal. Incidentals. EXPENSES HEALTH DEPARTMENT Salaries. Printing and stationery	1,040.00 35.00 72.00 22.17 	\$12 ,337.32
Rent Telephone service Ground flax seed and oil meal. Incidentals. EXPENSES HEALTH DEPARTMENT Salaries. Printing and stationery. Hardware. Advertising.	1,040.00 35.00 72.00 22.17 	\$ 12,337.32
Rent Telephone service Ground flax seed and oil meal. Incidentals. EXPENSES HEALTH DEPARTMENT Salaries. Printing and stationery. Hardware. Advertising.	1,040.00 35.00 72.00 22,17 	\$12,337.32
Rent Telephone service Ground flax seed and oil meal. Incidentals. EXPENSES HEALTH DEPARTMENT Salaries. Printing and stationery. Hardware. Advertising.	1,040.00 35.00 72.00 22.17 	\$12,337.32
Rent Telephone service Ground flax seed and oil meal. Incidentals. EXPENSES HEALTH DEPARTMENT— Salaries Printing and stationery. Hardware. Advertising. Repairs at crematory. Telephone service, 11 months Removal of dead animals, per contract 1 month	1,040.00 35.00 72.00 22.17 \$14,004.76 694.88 64.50 18.00 102.92 99.00 358.33	\$12,337.32
Rent Telephone service Ground flax seed and oil meal. Incidentals. EXPENSES HEALTH DEPARTMENT— Salaries Printing and stationery. Hardware. Advertising. Repairs at crematory. Telephone service, 11 months Removal of dead animals, per contract 1 month	1,040.00 35.00 72.00 22.17 ************************************	\$12,337.32
Rent Telephone service Ground flax seed and oil meal. Incidentals. EXPENSES HEALTH DEPARTMENT— Salaries Printing and stationery. Hardware. Advertising. Repairs at crematory. Telephone service, 11 months Removal of dead animals, per contract 1 month	\$14,004.76 \$22,17 \$14,004.76 694.88 64.50 18.00 102.92 99.00 358.33 548.50 19.00	\$12,337.32
Rent Telephone service Ground flax seed and oil meal. Incidentals. EXPENSES HEALTH DEPARTMENT— Salaries Printing and stationery. Hardware. Advertising. Repairs at crematory. Telephone service, 11 months Removal of dead animals, per contract 1 month	1,040.00 35.00 72.00 22.17 \$14,004.76 604.88 64.50 18.00 102.92 99.00 358.33 548.50 19.00 480.00	\$12,337.32 •
Rent Telephone service Ground flax seed and oil meal. Incidentals. EXPENSES HEALTH DEPARTMENT— Salaries Printing and stationery. Hardware. Advertising. Repairs at crematory. Telephone service, 11 months Removal of dead animals, per contract 1 month	1,040,00 35,00 72,00 22,17 	\$12,337.32 •
Rent Telephone service Ground flax seed and oil meal. Incidentals. EXPENSES HEALTH DEPARTMENT— Salaries Printing and stationery. Hardware. Advertising. Repairs at crematory. Telephone service, 11 months Removal of dead animals, per contract 1 month	1,040,00 35,00 72,00 22,17 	\$12,337.32
Rent Telephone service	1,040.00 35.00 72.00 22.17 \$14,004.76 694.88 64.50 102.92 99.00 358.33 548.50 19.00 480.00 28.50 182.75 14.00	\$12,337.32 •
Rent Telephone service Ground flax seed and oil meal. Incidentals. Expenses Health Department— Salaries. Printing and stationery. Hardware. Advertising. Repairs at crematory Telephone service, Il months. Removal of dead animals, per contract 1 month. Scavenger service. Subscription to sanitary papers. Rent of dump. Rent of crematory Livery. Veterinary surgeon's services. Analysis of water.	1,040,00 35,00 72,00 22,17 	\$12,337.32
Rent Telephone service Ground flax seed and oil meal. Incidentals. Expenses Health Department— Salaries. Printing and stationery. Hardware. Advertising. Repairs at crematory Telephone service, Il months. Removal of dead animals, per contract 1 month. Scavenger service. Subscription to sanitary papers. Rent of dump. Rent of crematory Livery. Veterinary surgeon's services. Analysis of water.	1,040.00 35.00 72.00 22.17 \$14,004.76 694.88 64.50 102.92 99.00 388.33 548.50 19.00 480.00 28.50 14.00 13.75 14.00 13.75 14.00	\$12,337.32 •
Rent Telephone service Ground flax seed and oil meal. Incidentals. Expenses Health Department— Salaries. Printing and stationery. Hardware. Advertising. Repairs at crematory Telephone service, Il months. Removal of dead animals, per contract 1 month. Scavenger service. Subscription to sanitary papers. Rent of dump. Rent of crematory Livery. Veterinary surgeon's services. Analysis of water.	1,040,00 35,00 72,00 22,17 	\$12,337.32 •
Rent Telephone service	1,040,00 35,00 72,00 22,17 	\$12,337.32
Rent Telephone service	1,040,00 35,00 72,00 22,17 	\$12,337.32
Rent Telephone service	1,040,00 35,00 72,00 22,17 	\$12,337.32 •
Rent Telephone service	1,040,00 35,00 72,00 22,17 	\$12,337.32
Rent Telephone service	1,040.00 35.00 72.00 22.17 \$14,004.76 604.88 64.50 102.92 99.00 388.33 548.50 19.00 480.00 28.50 18.75 110.16 10.00 13.75 110.16 10.00 13.65 14.73 14.73 14.73	\$12,337.32
Rent Telephone service Ground flax seed and oil meal. Incidentals. Expenses Health Department— Salaries. Printing and stationery. Hardware. Advertising. Repairs at crematory Telephone service, il months. Removal of dead animals, per contract I month. Scavenger service. Subscription to sanitary papers. Rent of dump. Rent of crematory Livery. Veterinary surgeon's services. Analysis of water. Stencils. Repairs at dump. Law books. Maps for annual report. Incidentals. Postage. Expenses of two investigating committees to Chicago. Expenses of Dr. S. S. Kilvington to New York, to A. P. H. A. Telegrams. Railway fare of patients. Express on books and newspapers.	1,040.00 35.00 72.00 72.00 22.17 	\$12,337.32
Rent Telephone service	1,040,00 35,00 72,00 22,17 814,004,76 694,88 64,50 18,00 102,92 99,00 358,33 548,50 19,00 480,00 180,00 28,50 14,00 13,75 110,16 10,00 75,00 13,69 55,74 336,50 89,00 14,73 36,50	
Rent Telephone service Ground flax seed and oil meal. Incidentals. Expenses Health Department— Salaries. Printing and stationery Hardware. Advertising. Repairs at crematory Telephone service, il months. Removal of dead animals, per contract 1 month. Scavenger service. Subscription to sanitary papers. Rent of dump. Rent of crematory Livery. Veterinary surgeon's services. Analysis of water. Stencils. Repairs at dump. Law books. Maps for annual report. Incidentals. Postage. Expenses of two investigating committees to Chicago. Expenses of Dr. S. S. Kilvington to New York, to A. P. H. A. Telegrams. Railway fare of patients. Express on books and newspapers. Fuel for crematory.	1,040.00 35.00 72.00 72.00 22.17 	\$12,337.32
Rent Telephone service	1,040.00 35.00 72.00 22.17 	
Rent Telephone service	1,040.00 35.00 72.00 22.17 	
Rent Telephone service	1,040.00 35.00 72.00 22.17 \$14,004.76 694.88 64.50 102.92 99.00 358.33 548.50 19.00 480.00 28.50 14.73 110.16 10.00 75.00 13.75 110.16 10.00 13.69 55.74 80.00 14.73 1.50 6.33 794.55	
Rent Telephone service Ground flax seed and oil meal. Incidentals. Expenses Health Department— Salaries. Printing and stationery. Hardware. Advertising. Repairs at crematory Telephone service, il months. Removal of dead animals, per contract I month. Scavenger service. Subscription to sanitary papers. Rent of dump. Rent of dump. Rent of crematory Livery. Veterinary surgeon's services. Analysis of water. Stencils. Repairs at dump. Law books. Maps for annual report. Incidentals. Postage. Expenses of two investigating committees to Chicago Expenses of Dr. S. S. Kilvington to New York, to A. P. H. A. Telegrams. Railway fare of patients. Express on books and newspapers. Fuel for crematory. VACCINATION, MAINTAINING QUARANTINE AND QUARANTINE Hospital Expenses Professsonal services to small pox patients. Clothing destroyed. Dry goods and clothing.	1,040.00 35.00 72.00 72.00 22.17 814,004.76 694.88 64.50 18.00 102.92 99.00 388.33 548.50 19.00 480.00 28.50 14.00 13.75 14.00 13.75 10.16 10.00 13.69 89.00 14.73 1.50 89.00 14.73 1.50 89.00 80 80 80 80 80 80 80 80 80 80 80 80 8	
Rent Telephone service	1,040.00 35.00 72.00 22.17 \$14,004.76 694.88 64.50 102.92 99.00 358.33 548.50 480.00 28.50 19.00 18.00 28.50 19.00 18.75 14.00 13.75 10.16 10.00 75.00 13.69 55.74 336.50 89.00 14.73 1.50 6.33 794.55	
Rent Telephone service	1,040,00 35,00 72,00 22,17 814,004,76 694,88 64,50 102,92 99,00 388,33 548,50 19,00 480,00 28,50 11,00 75,00 13,75 110,16 10,00 75,00 13,75 110,16 10,00 75,00 14,73 36,50 89,00 14,73 36,50 89,00 14,73 794,55 8345,00 55,25 172,15 264,80 188,09	
Rent Telephone service	1,040.00 35.00 72.00 22.17 \$14,004.76 694.88 64.50 102.92 99.00 358.33 548.50 480.00 28.50 19.00 18.00 28.50 19.00 18.75 14.00 13.75 10.16 10.00 75.00 13.69 55.74 336.50 89.00 14.73 1.50 6.33 794.55	

Lime. Live stock 'hogs' Groceries. Horseshoeing Blacksmith bills. Nursing sick Furniture Laundry Feed Harness and repairs. Rubber goods	11.80 10.00 269.73 31.75 9.09 50.00 48.85 6.16 131.91 26.50 45.85
Rubber goods. Repairs and ambulance Filling ice house. Garden seeds. Combination fence Fruit.	\$8.95 32.00 15.11 38.00 .75 \$2,194.45 \$20,510.56
Total disbursements	\$898,255,3 4
Recapitulation.	
January 1, 1889, by balance on hand	4,792.51 3,249.72
Total January 1, 1890, to disbursements	
January 1, 1890, balance on hand	\$134.786.89

INTEREST FUND.

RECEIPTS AND DISBURSEMENTS FOR THE TWELVE MONTHS ENDING DECEMBER 31, 1889.

HOW CREATED.

"A tax shall annually be levied upon all the taxable property of the city, sufficient to pay the interest to become due during the next fiscal year upon all bonds or debt of the city."

all bonds or debt of the city."	Ü	1
Tax levied 1889 for 1890, 2.1-10 mills	\$266	.913.91
INTEREST FUND, By credit balance, January 1, 1889		\$66.388.51
Receipts.		
By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	\$47,082.56 187,526.07 6,325.73	
By accrued interest on bonds sold.	\$240,934.36 411.11	\$241,345.47
Total credits		\$307.733.98
Disbursements.		
To paid interest on bonds during the year 1889		\$247.612.50
January 1, 1890, credit balance		\$60 121 48

PERMANENT IMPROVEMENT REVOLVING FUND.

RECEIPTS AND DISBURSEMENTS FOR THE TWELVE MONTHS ENDING DECEMBER 31, 1889.

HOW CREATED.

"There is hereby created a special fund, to be called "The Permanent Improvement Revolving Fund," to which shall be credited the principal sum of each of the installments of all special assessments assessed and levied by said city council, which are to be paid in five (5) equal annual installments.

The above assessments include the special assessments for sewer, paving and curb and gutter."

Special Assessments of 1889 for 1890— One-fifth of curb and gutter, special assessments. One-fifth of pavement, special assessments. One-fifth of sewer, special assessments.	\$39,832,25 78,604,71 101,200,80	\$219.637.76
Receipts.		
TAXES— March settlement from county treasurer. June settlement from county treasurer. November settlement from county treasurer.	\$8,855.01 183,702.17 4,521.06	\$197.078.24
Advances— Amount advanced for sewers built season of 1889, same to be refunded after the assessments have been collected		\$64.837.37
Downs		
BONDS— Proceeds of \$50,000, 4 per cent., 30 years bonds, sold to Blake Bros. & Co. Proceeds of \$50,000, 4 per cent., 30 years bonds, sold to Municipal Investment Co. Proceeds of \$50,000, 4 per cent., 30 years bonds, sold to Brewster, Cobb & Ferangook	\$48,710,00 98,526,00	
Cobb & Estabrook.	50,731.84	\$197,967,84
SUNDRIES— Sale of sewer pipe. Refund of warrants cancelled by resolution of city council Refund pay rolls.	\$28.96 20.70 63.97	\$113.63
City's share of sewer, paving, curb and gutter for season of 1889, this amount having been advanced by the revolving fund to the permanent improvement fund, same adjusted at the close of season 1889, as follows: Sewer construction Paving	\$241,681.71 26,593.91 1,755.06	\$270,030.68
Total receipts		\$730,027.76
Disbursements.		
SEWER CONSTRUCTION—		
Labor. Brick Rock Cement Sewer pipe Lumber and other material	\$336,315,45 ,'99,019,62 10,955,61 ¶ 36,569,92 -7,357,47 248,543,43	
-	a40,010.10	\$538,761.50
CURB AND GUTTER— Ring & Tobin, contractors Labor Resetting, repairing and sundries	\$25,610.66 # 442.74 2,005.09	deve (150 AG
CEDAR BLOCK PAVING—		\$28,058,49
Contractors	\$83,852.24	
Labor Sundries	409.60 206.79	
GRANITE BLOCK PAVING		*84,468,63
Pay rolls. Sundries	*605.12 16.15	D201 10**
Taxes Refunded—		\$621.27
Sewer, curb and gutter and paving taxes refunded Engineer certificates, taxes annulled		\$16,416.88 \$49,161.62

SPECIAL TAX EXPENSE— Printing and postal cards L. A. Condit, for descriptions Recording and filing engineer certificates Books	\$85.80 575.62 400.00 10.00	\$1.071.42
Adjusting accounts of city and county—pay rolls		\$120.00 950.00 890.79
Total disbursements		\$720,520.60
$Recapitulation. \ \ $		
January 1, 1889, to balance overdrawn		\$53,905.63 720,520.60
January 1, 1890, by receipts for twelve months		\$774,426.23 730,027.76
January 1, 1890, to balance overdrawn		\$44,398.47

PERMANENT IMPROVEMENT FUND.

RECEIPTS AND DISBURSEMENTS FOR THE TWELVE MONTHS ENDING DECEM-BER 31, 1889.

HOW CREATED.

"A tax not to exceed $2\frac{1}{2}$ mills snall annually be levied upon the total assessed valuation of the city, for the purpose of defraying the expense of the city's part of all public improvements, that is the expense of all improvements not provided for by special assessments."

ments not provided for by special assessments."	-	
Tax levied 1889 for 1890—2 mills Street opening, special assessment	\$254, 29,	203.73 208.00
Receipts.	\$283.	411.73
TAXES— March settlement from county treasurer. June settlement from county treasurer. November settlement from county treasurer.	\$38,045.74 209,202,02 6,327,65	\$253,575.41
Bonds- Proceeds of \$200,000 bonds, 30 years 4 per cent., sold to R. L. Day & Co Proceeds of \$125,000 bonds, 30 years 4 per cent., sold to Brewster, Cobb & Estabrook. Proceeds of \$100,000 bonds, 30 years 4 per cent., sold to Brewster, Cobb & Estabrook.	\$198,632,00 126,829,58 102,639,00	
SUNDRIES— Minneapolis Gas Co., advance for paving repairs. 54 old warrants cancelled per resolution of city council. J. C. Plant, repairs on cedar block paving. Refund from C. A. Nimocks, paving tax 1885. N. S. Woolen mill, repairs on granite block paving. Kate G. Reibith, error in award street opening No. 365. Joseph Cardinal, part of lot No. 135, Woolford, Sidle and R ad-	\$206.05 220.13 9.00 33.00 20.00 50.00	\$428,100.58
dition. F. Dayer, building on lot No. 1, block No. 5. N. W. Fire and Marine Insurance Co., damage to crematory. Pacific Fire Insurance Co., damage to crematory. Refund error in North Minneapolis tunnel pay roll. Unclaimed balances in pay rolls. Warrant No. 10,827, order James Pauly for sewer built on Nicollet avenue, 1883. Warrant No. 45,035, order Ringwall for rock, same included in	400.00 310.00 219.41 219.41 31.50 461.13	
former bill to F. Cook's estate, cancelled by order of council	34.87	\$2,414.50
Total receipts		8634,090.49

Disbursements.

NORTH MINNEAPOLIS SEWER TUNNEL-	\$17 Out 70	
Labor Brick. Cement. Rock and other materials. SOUTH MINNEAPOLIS SEWER TUNNEL Labor. Cement Rock and other materials. SOUTHEAST MINNEAPOLIS SEWER TUNNEL— Labor. NORTHEAST MINNEAPOLIS SEWER TUNNEL— Pay rolls. Brick.	\$15,286,79 2,411,70 2,750,25	
Cement	2,750.25 5,313.06	
SOUTH MINNEAPOLIS SEWER TUNNEL -		*25,761.80
Labor	\$2,596.12 873.89	
Rock and other materials	2,669.11	
SOUTHEAST MINNEAPOLIS SEWER TUNNEL—		\$6,139.12 \$1,272.80
NORTHEAST MINNEAPOLIS SEWER TUNNEL—		Φ1,212.00
Pay rolls	\$13,601.10 386.65	
Brick, Cement Rock and other materials.	4,308.78	
Rock and other materials.	6,752.17	\$25,048,70
Pay rolls	\$6,549.92	\$33,040,10
Brick	347.85 223.45	
Lumber and other materials.	973.94	
Brick. Cement Lumber and other materials. STRAIGHTENING BASSETT'S CREEK—	**3,161.46	\$8,095,16
Labor	284.00	
Masonry	1,118.28	
Masonry . L. A. Condit. descriptions. Sundries.	23.91 142.32	
		\$4,729.97
Widening Washington Avenue Bridge over Bassett's Creek— Contract R. M. Douglass. Labor extra. Sand.	\$3,289.26	
Labor, extra	295.75	
	31.24	\$3,616.25
Labor Material	\$2,538.84	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	639.58	\$3,178.42
Street openings. L. A. Condit, descriptions. Interest on awards.	\$93,599.56	09,110.30
L. A. Condit, descriptions.	$179.59 \\ 98.10$	
TAXES REFUNDED—		\$93,872.25
Sewer, curb and gutter, paving tax refunded		\$10,719.85
Strokkes— Street signs. M. Voliski, judgment vs. city, for stone taken from 13th avenue N. E. Franklin avenue bridge. Lyndale avenue bridge North Minneapolis police station, lot 4, block 34, Case, et al's addition to Minneapolis. Grading University avenue S. E., labor, Grading East Lake street, labor. Steel arch bridge, lamp posts for electric lights.		\$81.25
M. Voliski, judgment vs. city, for stone taken from 13th ave-		00 00
Franklin avenue bridge.		932.92 30,487.43
Lyndale avenue bridge		20,766.78
addition to Minneapolis.		2,000.00
Grading University avenue S. E., labor,		3,000.00
		699,90
Fire Department Property Account—	\$673.96	
Hose house, Harrison street N. E., plumbing, heatingbalance plumbing """" final estimate on building	300.00	
	2,910.90	
Tapping water main, north 4th street lot	15.84 $1,400.00$	
		\$5,300.70
Viaducts and railroad crossings, sundries		\$96,87
1883. Engineer's certificates, permanent improvement fund		360.50
Sidewalk repairs and re-assessments, season 1888	, r.	3,656.16 4,583.58
Sidewalk repairs and re-assessments, season 1888		
contractor	t	4,894.18 5,000.00
Site Soldiers' Home, authorized by act of legislature, pledge of city		55,000.00
Return of amount advanced to build 5th avenue north bridge		2,500.00
Return of amount advanced to build 5th avenue north bridge		
Return of amount advanced to build 5th avenue north bridge City's share of the sewer, paving, curb and gutter improvements for the season of 1889.	\$241.681.71	
Return of amount advanced to build 5th avenue north bridge City's share of the sewer, paving, curb and gutter improvements for the season of 1889. Sewer construction	\$241,681.71 26,593.91	
Return of amount advanced to build 5th avenue north bridge City's share of the sewer, paving, curb and gutter improvements for the season of 1889. Sewer construction	\$241,681.71 26,593.91 1,755.06	2,500.00
Return of amount advanced to build 5th avenue north bridge City's share of the sewer, paving, curb and gutter improvements for the season of 1889. Sewer construction Paving Curb and gutter	26,593.91	\$270,030.68
Return of amount advanced to build 5th avenue north bridge City's share of the sewer, paving, curb and gutter improvements for the season of 1889. Sewer construction Paving Curb and gutter Total disbursements	26,593.91	2,500.00
Return of amount advanced to build 5th avenue north bridge City's share of the sewer, paving, curb and gutter improvements for the season of 1889. Sewer construction. Paving. Curb and gutter. Total disbursements. Recunitulation.	26,593.91	\$270,030.68 \$594,830.27
Return of amount advanced to build 5th avenue north bridge City's share of the sewer, paving, curb and gutter improvements for the season of 1889. Sewer construction. Paving. Curb and gutter. Total disbursements. Recunitulation.	26,593.91 1,755.06	\$270,030.68
Return of amount advanced to build 5th avenue north bridge City's share of the sewer, paving, curb and gutter improvements for the season of 1889. Sewer construction Paving Curb and gutter Total disbursements	26,593.91	\$270,030.68 \$594,830.27
Return of amount advanced to build 5th avenue north bridge City's share of the sewer, paving, curb and gutter improvements for the season of 1889. Sewer construction. Paving. Curb and gutter. Total disbursements. Recunitulation.	26,593.91 1,755.06 \$14,579.41	\$270,030.68 \$594,830.27 \$684,090.49

WATER WORKS FUND.

RECEIPTS AND DISBURSEMENTS FOR THE TWELVE MONTHS ENDING DECEM-

BER 31, 1889.

HOW CREATED.

By special assessment of 65 cents per lineal front foot on each side of the street for water main: also the water rentals.

*Revenue for 1890.**

	Revenue for 1890.		
Special assessmen	t 1889 for 1890. revenue.	\$102	825.34
Estimated water i	revenue	165	,000.00
		\$967	825.34
	WATER WORKS.	dwa.	ONDIDE
RECEIPTS-	WAIRE WORKS.		
	ipts	\$2,759.38	
Kebruary "		4,838,93	
		3,223.65	
Aprii		1,069.15	
may		51,953.47 12,400.13	
		8,545,60	
		10,294.81	
September "	14	1.359.89	
		32,372.06 $20,937.86$	
November "	· · · · · · · · · · · · · · · · · · ·	20,937.86	
December " .		7,759.29	0.4 8 8 8 4 4 5 5
m			\$157,514.22
TAXES—	from county treasurer	\$9,491.56	*
June "	" " " "	92,567.21	
November "	**	1,809.75	
	-		\$103,868.52
ADVANCES—			
	S. D. Works for water main	\$785.00	
	Board of Education for water main	1,934,10	
64 64		367.90 1.600.00	
	- E. COURT & CO.	1,000.00	\$4,687.00
The above to be ref	unded when the taxes have been collected.		4.1,00.1100
SUNDRIES-			
Unclaimed balance	s on pay rolls	\$83.40	
Refund on pay rolls	s, Andrew Bergstrom	71.73	
Minnoppolis Street	P'v Co. expense of releving we towns in	37.70 900.22	
W A Rarnes & Co	s, Andrew Bergstrom No. 43,372, order Albert Norey R'y Co., expense of relaying water main expense of relaying water main.	14.86	
W. M. Barnes a co.		14.00	\$1,107.91
Total receipts			\$267,177.65
	Disbursements.		
CONSTRUCTION-	Distributions.		
	abor and material	\$118,570.24	
North Minneapolis	pumping station	38,804.07	
Water meters	***************************************	3,286.25	
TIN A MENNI	-		\$155,660.56
Taxes annulled en	gineer's certificates	*36,540.01	
Taxes annuned, eng	gineer's certificates	14,826.79	
Refund amount adv	vanced for water mains.	3,534.30	
	-		\$54,901.10
CURRENT EXPENSES—			
General running ex	vpenses	\$62,631.31	
Incluentals	***************************************	6,201,51	000 000 00
			\$68,832.82
Total disburse	ements		\$279,394.48
			2410,002130
	Recapitulation.		
January 1 1880 by bal-			970.550 40
" 1, 1890, by rece	ance on hand sipts for twelve months		\$79,558.42 267,177.65
2, 2000-03 1000	april 202 Circle Circle Months		201,111.00
			\$346,736.07
January 1, 1890, to disb	ursements for twelve months		279,394.48
1, 1890, by bala	ince on hand		\$61,341.59

WARD FUNDS.

RECEIPTS AND DISBURSEMENTS OF THE THIRTEEN WARDS FOR THE TWELVE MONTHS ENDING DECEMBER 31, 1889.

HOW CREATED.

"A tax not to exceed $2\frac{1}{2}$ mills shall be annually levied upon all the taxable property of each ward sufficient to defray all the expenses of the ward for the next fiscal year, including the grading of streets."

Sprinkling tax, special assessment per front foot. Sidewalk tax, special assessment per front foot.

WARD.	RATE STREET TAX.	STREET MILL TAX.	SIDEWALK SPECIAL TAX.	SPRINKLING SPECIAL TAX.	TOTAL WARD FUNDS.
1	2.1-10 Mills	\$8,453.36	\$25.344.30	\$5,900.74	\$39,698,40
2	1.5-10 "	11,993.68	20,555,44	6,779.62	39,328.74
3	2. "	24,091.51	34,707.67	12,079,39	70.878.57
4	1. "	36,983,17	19,685,04	12,740.56	69,408.7
5	·6-10 · · ·	14,452,34	44,564,53	15,815.34	74,832.2
6	2.1-10 "	9,045,49	19.511.73	5,580.75	34,137.9
7	2. "	10,486,97	5,824.93	5,159.97	21,471.8
8	2.1-10 "	24,470,35	28,011.05	11,923.83	64,405.2
9	2. "	9,042.93	21,358.93	3,660,93	34.062.7
0	2.1-10 "	8,044.48	2,506.32	737.50	11,288,3
1	2. "	8,291.63	17,732,49	8,959,52	34,983.6
2.	2.1-10 "	6,919.11	8,830,71	138.32	15,888.1
3	2.1-10 "	10,747.99	1,414.92	141.04	12,303.9
Total		\$183,023,01	\$250,048.06	\$89,617.47	\$522,688.5

FIRST WARD STREET FUND.

Credits.		
By taxes, March settlement By taxes, June settlement By taxes, November settlement.	\$1,743.22 5,928.82 175.22	08 048 30
By warrants cancelled. By earth sold. By error in pay roll. By amount unclaimed on pay rolls.		\$7,847.26 7,59 129,10 3,00 18.87
Total credits		\$8,005,82
To debit balance January 1, 1889. To labor. To tools and nails. To lumber for cross walks and culverts. To repairing tools. To sundries To interest paid on advances. To loan from sidewalk fund, returned.	284.79 46.25 25.25	
Total debits	,	\$7,771.83
Credit balance		\$233.9.7

FIRST WARD SIDEWALK FUND.		
Credits.		
By loans to street fund returned By taxes, March settlement. By taxes, June setttlement. By taxes, November settlement.	\$2,518.11 7,699.85 251.25	\$3,800.00
By warrants cancelled	\$30.00 90.36 191.46	\$10,469.21
Total credits		\$14.581.03
Debits.		
To debit balance, January 1, 1889. To labor To hardware and nails To lumber. To laying stone sidewalks. To repairing sidewalks. To sidewalk taxes refunded. To taxes annulled, engineer certificates. To sundries. To L. A. Condit, county auditor, descriptions.	\$871.32 15.28 5.70 89.12 525.95 6.90 4,760.86 8,245.04 1.50 5.34	
Total debits	177 C 8	\$14,527.01
Credit balance		\$54.02
·	• /	φ04.U.3
FIRST WARD SPRINKLING FUND.		
Credits.	Latter Council	1000
By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	\$328,29 3,327.03 98.11	\$3,753.43
Total anadita		
Total credits		\$3,753,43
To debit balance, January 1, 1889. To labor To taxes refunded. To taxes annulled, engineer certificates. To L. A. Condit, county auditor, descriptions.	\$285.35 3,336.00 3.00 114.61	
Total debits.	14.68	00 000 01
	٠.	\$3,753.64
Debit balance	\$0.21	
SECOND WARD STREET FUND. Credits.		
By credit balance, January 1, 1889.		\$2,560.95
By credit balance, January 1, 1889. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	\$1,831.89 8,060.04 357.29	
By earth sold By labor on bridges. By error in pay rolls.		\$10.249.22 \$163.00 22.55 50
Total credits		\$12,996.22
Debits.		
To labor To grading To street sweeper To street sweeper repairs To hardware and toois To repairing tools To lumber, cross walks and culverts To sundries	\$7,197.16 4,391.36 421.15 83.50 33.37 37.74 261.00 4.75	
Total debits		\$12,430.03

Credit balance....

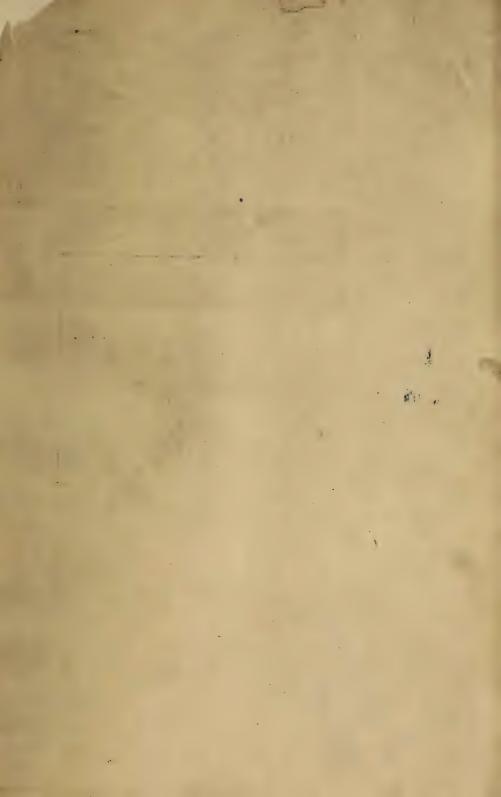
\$566.19

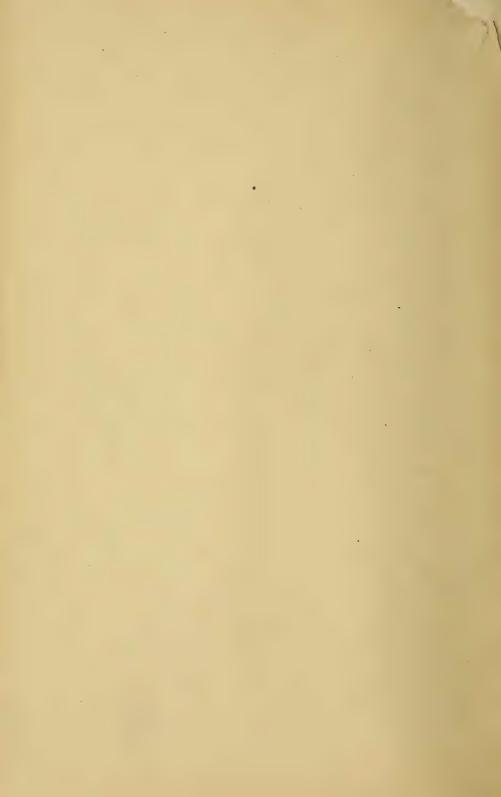
SECOND WARD SIDEWALK FUND.

Credits.	7	
By credit balance Ianuary 1 1880		\$2,003.92
By taxes, March settlement	\$919.23	Ψω,000.00
By credit balance January 1, 1889. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	4,847.36	
By taxes, November settlement	551.38	\$6,317.97
By warrants cancelled		1.35
By warrants cancelled. By errors in refund of sidewalk tax. By sidewalk repairs and reassessment, season 1889		56.33
By sidewalk repairs and reassessment, season 1889		603.35
Total credits		\$8,982.92
Dobito		
To labor	\$220.10	
To nails and tools	65.35	
To laying brick sidewalks	193.30 65.83	
To laying stone sidewalks.	48.73	
To lumber	886.36	
To sidewalk tax refunded	4,237.05 $3,163.07$	
To L. A. Condit, county auditor, descriptions	5.52	
To labor To nails and tools. To laying brick sidewalks To laying wood sidewalks. To laying stone sidewalks. To laying stone sidewalks. To lawine To sidewalk tax refunded. To sidewalk tax annulled, engineer's certificates. To L. A. Condit. county auditor, descriptions. To sundries.	1.50	
Total debits.		\$8,886.81
10001 000103		
Credit balance		\$96.11
SECOND WARD STREET SPRINKLING FUN	D.	
Credits.		
By credit balance January 1, 1889. By taxes, March settlement. By taxes, June settlement By taxes, November settlement.	00×100	\$443.68
By taxes, March Settlement	\$254.39 6,100.94	
By taxes, November settlement	105.42	
-		\$6,460.75
Total credits		\$6,904.43
Debite		40,000
To labor	\$4,921.50	
To tax refunded	439.30 673.07	
To labor. To tax refunded To tax annulled, engineer's certificates To L. A. Condit, county auditor, descriptions.	23.34	
Total debits		
Total debits		90 AEC 01
		\$6,056.21
Credit balance		\$6,056.21 \$848.22
Credit balance		
Credit balance		
THIRD WARD STREET FUND.		
THIRD WARD STREET FUND.	\$3,897.02	
THIRD WARD STREET FUND.	\$3,897.02 17,832.28 541.56	
THIRD WARD STREET FUND. Credits. By taxes, March settlement By taxes, June settlement By taxes, November settlement	\$3,897.02 17,832.28 541.56	\$848.22 \$22,270.86
THIRD WARD STREET FUND. Credits. By taxes, March settlement By taxes, June settlement By taxes, November settlement	\$3,897.02 17,832.28 541.56	\$848.22 \$22,270.86 184.76
THIRD WARD STREET FUND. Credits. By taxes, March settlement By taxes, June settlement By taxes, November settlement	\$3,897.02 17,832.28 541.56	\$848.22 \$22,270.86 184.76 3.00
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls.	\$3,897.02 17,832.28 541.56	\$848.22 \$22,270.86 184.76 3.00 13.61
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls. Total credits.	\$3,897.02 17,832.28 541.56	\$848.22 \$22,270.86 184.76 3.00
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls. Total credits.	541.56	\$848.22 \$22,270.86 184.76 3.00 13.61
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls. Total credits.	\$262.05 1,000.00	\$848.22 \$22,270.86 184.76 3.00 13.61
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls. Total credits.	\$262.05 1,000.00 15.00	\$848.22 \$22,270.86 184.76 3.00 13.61
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls. Total credits. Debits. To debit balance, January 1, 1889. To loan from sidewalk fund returned. To advance for grading refunded. To labor. To handware and tools.	\$262.05 1,000.00 15.00 15.060.64	\$848.22 \$22,270.86 184.76 3.00 13.61
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls. Total credits. Debits. To debit balance, January 1, 1889. To loan from sidewalk fund returned. To advance for grading refunded. To labor. To handware and tools.	\$262.05 1,000.00 15,060.64 129.81 345.00	\$848.22 \$22,270.86 184.76 3.00 13.61
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls. Total credits. Debits. To debit balance, January 1, 1889. To loan from sidewalk fund returned. To advance for grading refunded. To labor. To handware and tools.	\$262.05 1,000.00 15.00 15,060.64 129.81 345.00 290.72	\$848.22 \$22,270.86 184.76 3.00 13.61
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls. Total credits. Debits. To debit balance, January 1, 1889. To labor To advance for grading refunded. To advance for grading refunded. To labor To hardware and tools. To graders and scrapers. To repairing tools. To lumber for crosswalks and culverts.	\$262.05 1,000.00 15.00 15.00 64 129.81 345.00 290.72 628.54 354.05	\$848.22 \$22,270.86 184.76 3.00 13.61
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls. Total credits. Debits. To debit balance, January 1, 1889. To labor To advance for grading refunded. To advance for grading refunded. To labor To hardware and tools. To graders and scrapers. To repairing tools. To lumber for crosswalks and culverts.	\$262.05 1,000.00 15,060.64 129.81 345.00 290.72 628.54 354.05 45.00	\$848.22 \$22,270.86 184.76 3.00 13.61
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls. Total credits. Debits. To debit balance, January 1, 1889. To labor To advance for grading refunded. To advance for grading refunded. To labor To hardware and tools. To graders and scrapers. To repairing tools. To lumber for crosswalks and culverts.	\$262.05 1,000.00 15,060.64 129.81 345.00 290.72 628.54 354.05 45.00 6.75	\$848.22 \$22,270.86 184.76 3.00 13.61
THIRD WARD STREET FUND. Credits. By taxes, March settlement By taxes, June settlement By taxes, November settlement By earth sold and repairing of plow By warrants cancelled By amount unclaimed on pay rolls. Total credits Total credits Debits. To loan from sidewalk fund returned To advance for grading refunded. To labor. To hardware and tools To graders and scrapers To repairing tools To lumber for crosswalks and culverts To dirt To rent of room for storage of tools, seasons 1888, 1889. To Insurance on tools, seasons 1889, 1890. To sundries.	\$262.05 1,000.00 15,060.64 129.81 345.00 290.72 628.54 354.05 45.00	\$22,270.86 184.76 3.00 13.61 \$22,472.23
THIRD WARD STREET FUND. Credits. By taxes, March settlement. By taxes, November settlement. By earth sold and repairing of plow By warrants cancelled. By amount unclaimed on pay rolls. Total credits. Debits. To debit balance, January 1, 1889. To labor To advance for grading refunded. To advance for grading refunded. To labor To hardware and tools. To graders and scrapers. To repairing tools. To lumber for crosswalks and culverts.	\$262.05 1,000.00 15,060.64 129.81 345.00 290.72 628.54 354.05 45.00 6.75	\$848.22 \$22,270.86 184.76 3.00 13.61
THIRD WARD STREET FUND. Credits. By taxes, March settlement By taxes, June settlement By taxes, November settlement By earth sold and repairing of plow By warrants cancelled By amount unclaimed on pay rolls. Total credits Total credits Debits. To loan from sidewalk fund returned To advance for grading refunded. To labor. To hardware and tools To graders and scrapers To repairing tools To lumber for crosswalks and culverts To dirt To rent of room for storage of tools, seasons 1888, 1889. To Insurance on tools, seasons 1889, 1890. To sundries.	\$262.05 1,000.00 15,060.64 129.81 345.00 290.72 628.54 354.05 45.00 6.75	\$22,270.86 184.76 3.00 13.61 \$22,472.23

THIRD WARD SIDEWALK FUND.

THIRD WARD SIDEWALK FUND.		
Credits.		
By loan to street fund returned. By loan to sprinkling fund returned. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.		\$1,000.00
By loan to sprinkling fund returned	\$1,627.54	800.00
By taxes, March Settlement	14,943.57	
By taxes, November settlement.	697.86	
		\$17,268.97
By repairing sidewalks		4.64
By warrants cancelled. By error in charge of engineer certificates. By repairing sidewalks and re-assessments, season 1889.		$16.13 \\ 231.86$
By error in charge of engineer certificates		1,013.31
by repairing side warks and re-assessments, season room		
Total credits		\$20,334.91
Total credits		
To debit balance, January 1, 1889	\$55.40	
To labor	790.43 209.90	
To laying and renairing wood sidewalk	361.67	
To laying and repairing stone sidewalk.	184,14	
To labor. To hardware and tools. To laying and repairing wood sidewalk. To laying and repairing stone sidewalk. To lumber.	4.072.56	
To sidewalk tax refunded. To sidewalk tax annulled, engineer's certificates To L. A. Condit, county auditor, descriptions	4,229.48	
To sidewalk tax annulled, engineer's certificates	11,154.35	
To L. A. Condit, county auditor, descriptions	25.89	
Total debits		\$21,083.82
Lotal doubles	-	
Debit balance	\$748.91	
THIRD WARD STREET SPRINKLING FUN	D.	
	ν.	
Oredits.	\$560.17	
By taxes March settlement	8,423.22	
By taxes June settlement	230.79	
Total credit		\$9,214.18
Dehits.	\$227.43	
To debit balance January 1, 1889 To loan from sidewalk fund returned	800.00	
	£ 009 90	
To hardware and tools	42.50	
To balance due on sprinklers	414.00	
To sprinkler repairs	10.50	
To hardware and tools. To balance due on sprinklers. To sprinkler repairs. To tax refunded To tax annulled, engineer's certificates.	143.37 183.44	
To L. A. Condit, county auditor, descriptions	38.02	
Total debits		\$6,952.56
Chadit balance		80.001.00
Credit balance		\$2,261.62
FOURTH WARD STREET FUND.		
Credits,		
By credit balance January 1, 1889. By amount borrowed from sidewalk fund. By taxes March settlement.		\$829,24
By amount borrowed from sidewalk fund		500.00
By taxes March settlement	\$6,252.07	
By taxes June settlement. By taxes November settlement.	15,454.36 381.38	
by taxes November settlement	991.99	22.087.81
By earth sold		9,00
By advances and bonus for grading		2,263.41
By warrants cancelled		10.75
By advances and bonus for grading. By warrants cancelled. By errors in pay rolls. By amount unclaimed on pay rolls.		1.75 16.21
by amount unclaimed on pay rons		10.21
Total credits		\$25,718.17
Debits.		
To loans from sidewalk fund returned	\$4,400.00	
To labor	22,261.12 262.11	
To repairing tools,	71.94	
To hardware and tools. To repairing tools. To lumber, cross-walks and culverts. To two O'Neil street sweepers.	293.79 811.36	
	911 96	
To two O'Neil street sweepers	011'90	
TO Street Sweeper repairs	396.50	
To grading.	396.50 1,217.20	
To grading.	396,50 1,217,20 123,36	
TO Street Sweeper repairs	396.50 1,217.20	
To grading.	396,50 1,217,20 123,36	\$29,875.23





FOURTH WARD SIDEWALK FUND,

Credits.

Creaus,		
By credit balance, January 1, 1889. By loans to street fund returned By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	\$2,156.36 28,111.52 2,707.70	\$1,682.78 4,400,00
By warrants cancelled. By error in charge of engineer certificates. By sidewalk repairs and reassessments, season 1888.	2,101.10	\$32,975.58 29.58 421.81 265.54
Total credits		*39,775.29
	0=00.00	
To loan from street fund returned. To labor. To hardware and tools. To lumber. To laying and repairing wood sidewalks. To laying and repairing stone sidewalk. To sidewalk tax refunded. To sidewalk tax annulled, engineer's certificates. To sundries. To L. A. Condit, county auditor, descriptions.	\$500.00 513.85 107.65 1,867.36 113.21 949.51 9,380.11 23,907.75 12.00 8.76	
Total debits		\$37,360.20
Credit balance		\$2,415.09
FOURTH WARD STREET SPRINKLING FU	ND.	
· Credits.		
By credit balance January 1, 1889		\$51.39
By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	\$1,025.43	
By taxes, June settlement	13,621.26	
By taxes, November settlement	315.05	\$14,961.74
Total credits		\$15,013.13
Dehits.		Ψ10,010.19
	010 == 0.0=	
To labor. To Oak Lake Improvement Association. To Hawthorn Park Improvement Association. To tax refunded. To tax annulled, engineer's certificates. To sundries. To L. A. Condit, county auditor, descriptions.	\$10,556.25 700.00 1,633.84 150.29 350.59 50 60.90	
Total debits		\$13.452.37
Credit balance		\$1,560.76
		Ф1,500.10
FIFTH WARD STREET FUND.		
Credits.		
By credit balance. January 1, 1889. By loan to sixth ward street fund returned. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	\$2,239.65 9,259.45 162.98	\$3,202.09 750.00
		\$11,662.08
By warrants cancelled. By repairing cross walks. By error in pay rolls. By Minneapolis Street Railway Co., grading. By amount unclaimed on pay rolls.		23.66 10.00 28.44 298.23 43.15
Total credits		\$16,017.65
Debits.		Ф10,017.00
220.74004	\$10,944,48	
To labor To Hardware and tools. To repairing tools. To lumber for cross walks and culverts. To one O'Nell patent street sweeper. To repairs to street sweeper. To one road worker. To grading To damages opening 1st avenue south To Sundries.	128,90 59,40 248,11 441,15 257,47 100,00 263,40 500,00 13,20	
Total debits		\$12,956.11
Credit balance.		\$3.061.54

FIFTH WARD SIDEWALK FUND.

FIFTH WARD SIDEWALK FUND.		
By taxes, March settlement	\$3,058.55 64,078.78 558.57	
By warrants cancelled By repairing sidewalk By Minneapolis Street Railway Co., sidewalk repairing By error in charge, engineer certificates By sidewalk repairs and re-assessments, season 1889		\$67,695,90 11,95 16,20 42,00 72,03 754,16
Total credits		\$68,592.24
Dehits	04.000.40	
To debit balance January 1, 1889. To labor To hardware and tools. To lumber To laying wood sidewalk To laying stone sidewalk To sidewalk tax refunded. To sidewalk tax annulled, engineer certificates To sundries To L. A. Condit, county auditor, descriptions.	\$1,396.19 925.22 101.90 2,208.00 160.69 827.37 4,695.26 58,951.90 14.50 29.96	
Total debit		\$69,310.99
Debit balance	\$718.75	
	•	
FIFTH WARD STREET SPRINKLING FUND	Э,	
Credits,		25 404.00
By credit balance January 1, 1889. By taxes, March settlement. By taxes, June settlement By taxes, November settlement.	\$763.68 8,224.17 135.79	\$5,194.02
By error in pay roll.		\$9,123.64 88.67
Total credits		\$14,406,33
To labor Debits,	\$12,888.73	
To labor To Portland Avenue Improvement Association. To taxes refunded. To taxes annulled, engineer's certificates. To sundries To L. A. Condit, county auditor, descriptions,	49.35 185.41 263.58 10.38 66.06	
Total debits		\$13,463.51
('redit balance		\$942.82
Creure parameter.		Φ942.02
SIXTH WARD STREET FUND.		
By taxes, March settlement	Q1 450 56	
By taxes, June settlement. By taxes, November settlement.	\$1,450.56 6,891.52 258.83	
By warrants cancelled		\$8,600.91 9.60 .82
Total credits		\$8,611.33
Dehits.	904 44	
To debit balance January 1, 1889. To loan from fifth ward street fund returned. To loans from sidewalk fund returned. To labor. To hardware and tools To lumber for crosswalks and culverts.	\$84.41 750.00 1,400.00 5,930.80 16.00 88.13	
Total debits		\$8,269.34
*Credit balance		\$341.99

\$106.10

SIXTH WARD SIDEWALK FUND.

"	re	A	it	4

Credits.		
By credit balance January 1, 1889. By loans to street fund returned. By taxes March settlement. By taxes June settlement. By taxes November settlement.	\$659.35 16,321.63 669.98	\$269.02 1,400.00
By warrants cancelled. By error in charge of engineer's certificates. By sidewalk repairs and re-assessments season 1889. By advance for repairing sidewalk	•	14.85 153.93 344.15 9.10
Total credits		\$19,842.61
To labor To hardware and tools To lumber To laying wood sidewalk. To laying stone sidewalk To sidewalk tax refunded To sidewalk tax annulled, engineer's certificates To L. A. Condit, county auditor, descriptions	\$236.68 106.10 2,542.13 152.56 154.63 1,882.64 12,510.92 11.82	
Total debits		\$17,597.48
Credit balance		\$2,245.13

SIXTH WARD STREET SPRINKLING FUND.

Credits.

By taxes March settlement. By taxes June settlement. By taxes November settlement	\$326.50 4,456.12 130.92	
Total credits		\$4,913.54
Debits.		
To debit balance January 1, 1889	\$34.44 4,327.75 17.74	
To L. A. Condit, county auditor, descriptions	21.43	
Total debits		\$4,401.36
Credit balance		\$512.18

SEVENTH WARD STREET FUND.

Credits.

By credit balance January 1 1880

By taxes, March settlement. By taxes, November settlement.	*1,593.30 7,958.99 446.49	φ100.10
By earth sold By lumber sold By warrants cancelled. By advances for grading. By amount unclaimed on pay rolls.		\$9,998.78 487.90 6.00 4.50 112.00 1.62
Total receipts		\$10,716.90
To loan to sidewalk fund returned. To labor, To hardware and tools. To repairing tools. To lumber for cross walks and culverts.	\$2,250.00 8,232.23 78.51 33.65 279.24	
Total debits		\$10,873.63
Debit balance.	\$156.73	

SEVENTH WARD SIDEWALK FUND.

SEVENTH WARD SIDEWALK FUND.		
Credits.		
By credit balance, January 1, 1889 By loans to street fund returned By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	\$1,622.66 1,639.87 21.00	\$2,219.48 2.250.00 \$3,283.53
By warrants cancelled		8.97 114.89 196.13
Total credits	\$118.78	\$8,073.00
To hardware and tools. To lumber. To laying wood sidewalk. To sidewalk tax refunded. To sidewalk tax annulled, engineer's certificates To sundries. To L. A. Condit, county auditor, descriptions	71.65 1.176.13 131.16 3,345.33 1,181.64 6.00 .18	
Total debits		\$6,030.87
('redit balance		\$2,042.13
SEVENTH WARD STREET SPRINKLING FUL ('redits,	ND.	
By credit balance January 1, 1889.	#U-1 00	\$140.91
By credit balance January 1, 1889. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	\$38.90 1.077.38 57.70	\$1.173.98
Total credits		\$1,314.89
Dehits.		***************************************
To labor To taxes refunded. To taxes annulled, engineer's certificates. To L. A. Condit, county auditor, descriptions.	\$1,139.00 28.29 104.58 6.02	
Total debits		\$1,277.89
Credit balance		\$37.00
EIGHTH WARD STREET FUND. Credits. By credit balance January 1, 1889		\$14,781.80
By taxes, March settlement. By taxes, November settlement.	\$2,828.80 17,236.61	
	854.94	\$20,920.35
By earth sold. By donation for grading. By warrants canceled. By error in pay rolls. By amount unclaimed on pay rolls.		1,116.50 50.00 19.50 1.60 16.33
Total credits		\$36,906.08
To loan from sidewalk fund returned. To loan from sprinkling fund returned. To labor. To hardware and tools. To repairing tools. To lumber for crosswalks and culverts. To grading. To use of cars. To sundries.	\$400.00 1,000.00 8,619.60 107.97 36.55 390.60 26,615.30 150.00 3.75	
Total debits		\$37,323.77
Debit balance	\$417.69	

EIGHTH WARD SIDEWALK FUND.

EIGHTH WARD SIDEWALK FUND.		
Credits.		
By credit balance January 1, 1889		*2.573.23
By loan to street fund returned By taxes, March settlement By taxes, June settlement By taxes, November settlement	\$2,048.40	400.00
By taxes, March Settlement.	11,945.53	
By taxes, November settlement	472.02	
		\$14,465.95 3.00
By warrants cancelled By error in charge of engineer's certificates By sidewalk repairs and reassessments, season 1889		48.72
By sidewalk repairs and reassessments, season 1889		425.24
Total credits	-	\$17,916,14
Debits.		VIII.
To labor	\$618.08	
To hardware and tools	172.52 2,751.97	
	2,751.97	
To laying sidewalk. To sidewalk tax refunded. To sidewalk tax annulled, engineer's certificates.	49.14 $5,905.37$	
To sidewalk tax annulled, engineer's certificates	4,877.10	
To sundries	8,50	
To L. A. Condit, county auditor, descriptions	16.38	
Total debits		\$14,399.06
	-	
Credit balance		\$3.517.08
EIGHTH WARD STREET SPRINKLING FUN	D.	
Credits.		0.110.00
By credit balance January 1, 1889. By loan to street fund returned. By taxes March settlement.		\$113.39 1.000.00
By taxes March settlement.	\$525.45	1,000.00
By taxes June settlement. By taxes November settlement	8,111.73	
By taxes November settlement	381.42	\$9,018,60
Total credits		\$10,131.99
Debits.		
To labor.	\$7,352.50	
To taxes refunded	266.18 51.95	
To taxes annulled, engineer's certificates	140.37	
To labor. To Portland Avenue Improvement association. To taxes refunded. To taxes annulled, engineer's certificates. To L. A. Condit, county auditor, descriptions	59.00	
Total debits		\$7,870.00
Credit balance		\$2,261.99
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NINTH WARD STREET FUND. Credits.		
By credit balance January 1, 1889		\$725.72
By credit balance January 1, 1889 By taxes, March settlement	\$942.54	
By taxes, June settlement. By taxes, November settlement.	7,181.29 271.51	
By taxes, November settlement	211.01	\$8,395.34
By earth sold		327.55 25.00
By rock sold. By amount unclaimed on pay rolls.		$25.00 \\ 1.50$
by amount unclaimed on pay rolls		1.50
Total credits		\$9,474.91
Debits.		
To loans from sidewalk fund returned	\$800.00	
To labor. To hardware and tools. To properlying tools.	$6,886.64 \\ 31.21$	
To repairing tools To lumber for cross-walks and culverts. To rock. To road machine	27.10	
To lumber for cross-walks and culverts	156.08	
To road machine	$\frac{13.38}{265.00}$	
To sundries	2.00	
Total debits		\$8,181.41
Credit balance		\$1,293.50

NINTH WARD SIDEWALK FUND.

NINTH WARD SIDEWALK FUND.		
· Credits.		
By credit balance January 1, 1889. By loan to street fund returned. By taxes March settlement. By taxes June settlement. By taxes November settlement.	\$425.40 6,544.94 352.10	\$1,141.09 800.00
By sidewalk repairs and re-assessments, season 1889		\$7,322.44 239.71
Total credits	-	\$9,503.24
Debits,	0004 50	
To labor. To hardware and tools. To lumber. To laying wood sidewalk. To laying stone sidewalk. To tax refunded. To tax annulled, engineer's certificates. To sundries. To L. A. Condit, county auditor, descriptions	\$201.53 112.95 2,732.69 239.44 53.46 813.50 3,894.01 3.00 40.22	\$8,090.80
Total debits	-	\$1.412.44
· Credit balance		ФІ4ТІЖАТТ
Credits.		
By taxes, March settlement By taxes, June settlement By taxes, November settlement	$\begin{array}{c} 46.46 \\ 2,281.94 \\ 237.85 \end{array}$	
Total credits		\$2,566 25
To debit balance, January 1, 1889. To labor. To taxes refunded To taxes annulled, engineer certificates. To L. A. Condit, county auditor, descriptions.	\$461.56 1,674.00 17.73 63.02 13,24	
Total debits		\$2,229.55
Credit balance		\$336.70
TENTH WARD STREET FUND.		
By taxes, March settlement	\$1,343.40	
By taxes, June settlement. By taxes, November settlement.	5,339.25 275,54	
		\$6,958.19 1,036,66
By loan to E. H. Moulton, city treasurer, returned. By warrants cancelled. By earth sold.		35.15
By rock sold		185.46 2.45
By amount advanced by V. Reeves <i>et al</i> for grading		1,000.00 15.00
Total credits		\$9,232.91
To debit balance January 1, 1889	\$873.42	
To debit balance January 1, 1889. To loan from E. H. Moulton, city treasurer, returned. To amount advanced for grading by E. B. Ames, returned. To amount advanced for grading by R. Farnham, returned. To labor. To hardware and tools. To repairing tools. To lumber. To scrapers.	1,080.55 3,000.00 1,000.00 2,724.74 42.45 19.30 87.41 100.00	
Total debits		\$8,927.87
Credit balance.		\$305.04

TENTH WARD SIDEWALK FUND.

Credits.

Creaus.		
By credit balance January 1, 1889. By taxes, March settlement. By taxes, June settlement.		\$49.22
By taxes, March settlement	\$66.43	
By taxes, June settlement	36.66	\$103.09
	-	Ψ100.00
Total credit		\$152.31
Debits,		
To sidewalk tax refunded	\$11.93	
To sidewalk tax refunded	1.50	
		\$13.43
Total debits		Ф10.40
Credit balance		\$138.88
TENTH WARD STREET SPRINKLING FUN	D.	
Credits,		
Creaus.		\$29.50
By credit balance, January 1, 1889 By taxes, March settlement By taxes, June settlement By taxes, November settlement	\$23.35	Φ29.00
Ry taxes, March Settlement	557.48	
By taxes, November settlement	12.61	
		\$593.44
		0000.04
Total credits		\$622.94
Debits.		
To labor	\$603.00	
To L. A. Condit, county auditor, descriptions.	3.22	
Total debits		\$606.22
Total debits		4000.22
Credit balance		\$16.72
ELEVENTH WARD STREET FUND.		
Credits.		
		\$186.35
By credit balance January 1, 1889. By taxes, March settlement	\$1,076.04	\$100.55
By taxes, June settlement.	6,107.83	
By taxes, June settlement. By taxes, November settlement.	360.43	
as and		\$7,544.30
By amount unclaimed on pay rolls		4.95
Total credits		\$7,735.60
Debits.		Φ1,100.00
	@@ 000 @0	
To labor. To hardware and tools. To repairing tools	\$6,888.69 69.04	
To repairing tools	72.20	
To repairing tools	361.63	
		0W 004 #4
Total debits		\$7,391.56
Credit balance		\$344.04
Credit Dalance		ψ 911. 01
ELEVENTH WARD SIDEWALK FUND.		
Credits.		0110 18
By credit balance January 1, 1889. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	\$800.39	\$442.45
Ry taxes, march settlement	15,232.98	
By taxes, November settlement	650.01	
		\$16,683.38
By sidewalk repairs and re-assessments, season 1889		550.53
		\$17,676,36
Total anadita		911,010.50
Total credits		
Dehits	0004.01	
To labor	\$684.81 142.60	
To labor	142.60	
To labor	$142.60 \\ 3,293.98 \\ 64.00$	
To labor	$\begin{array}{r} 142.60 \\ 3,293.98 \\ 64.00 \\ 248.51 \end{array}$	
To laborDebits.	$\begin{array}{c} 142.60 \\ 3,293.98 \\ 64.00 \\ 248.51 \\ 20.00 \end{array}$	
To labor To hardware and tools. To lumber. To brick. To laying sidewalk. To tool repair cart. To sidewalk tay refunded.	$\begin{array}{c} 142.60 \\ 3,293.98 \\ 64.00 \\ 248.51 \\ 20.00 \\ 3,256.28 \end{array}$	
To labor To hardware and tools. To lumber. To brick. To laying sidewalk. To tool repair cart. To sidewalk tay refunded.	$\begin{array}{c} 142.60 \\ 3,293.98 \\ 64.00 \\ 248.51 \\ 20.00 \end{array}$	
To labor To hardware and tools. To lumber. To brick. To laying sidewalk. To tool repair cart. To sidewalk tay refunded.	$\begin{array}{c} 142.60 \\ 3,293.98 \\ 64.00 \\ 248.51 \\ 20.00 \\ 3,256.28 \\ 10,550.46 \end{array}$	
To labor To hardware and tools. To lumber. To brick. To laying sidewalk. To tool repair cart. To sidewalk tax refunded. To sidewalk tax annulled, engineer's certificates. To sundries. To L. A. Condit, county auditor, descriptions.	$142.60 \\ 3,293.98 \\ 64.00 \\ 248.51 \\ 20.00 \\ 3,256.28 \\ 10,550.46 \\ 4.50$	
To labor To hardware and tools. To lumber. To brick. To laying sidewalk. To tool repair cart. To sidewalk tay refunded.	$142.60 \\ 3,293.98 \\ 64.00 \\ 248.51 \\ 20.00 \\ 3,256.28 \\ 10,550.46 \\ 4.50$	818,269.79
To labor To hardware and tools. To lumber. To brick. To laying sidewalk. To tool repair cart. To sidewalk tax refunded. To sidewalk tax annulled, engineer's certificates. To sundries. To L. A. Condit, county auditor, descriptions.	$142.60 \\ 3,293.98 \\ 64.00 \\ 248.51 \\ 20.00 \\ 3,256.28 \\ 10,550.46 \\ 4.50$	\$18,269.79

ELEVENTH WARD STREET SPRINKLING FUND.

Credits.	XD.	
By credit balance January 1, 1889 By taxes March settlement. By taxes June settlement. By taxes November settlement.	\$193.40 2,801.03 118.93	\$719.90 \$3,113.36
Total credits.	-	\$3,833.26
To labor To taxes refunded To taxes annulled, engineer's certificates To L. A. Condit, county auditor, descriptions	\$3,635.45 26.78 41.47 15.96	,
Total debits	_	\$3,719.66
Credit balance		\$113.60
TWELFTH WARD STREET FUND. Credits. By credit balance, January 1, 1889. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	\$510,56 5,068.47 210.63	\$161.38
By earth sold		\$5,789.66 \$467.57 1.75
Total credits		\$6,420.36
To labor. To hardware and tools. To repairing tools. To lumber for cross walks and culverts. To Sundries.	\$5,752.28 33.66 16.20 164.46 11.58	
Total debits		\$5,978.18
Credit balance		\$442.18
TWELFTH WARD SIDEWALK FUND. Credits. By credit balance January 1, 1889 By taxes, March settlement By taxes, June settlement By taxes, November settlement Total credits	\$110.11 979.12 100.49	\$91.54 \$1,189.72 \$1,281.26
To labor	\$91.39	
To hardware and tools. To lumber To tax refunded. To tax annulled, engineer's certificates To sundries To L. A. Condit, county auditor, descriptions	25.65 368.59 406.09 485.75 1.50	M4 DNO DO
Total debits	And en	\$1,379.09
Debit balance	\$97.83	

THIRTEENTH WARD STREET FUND.

Credits.

· · · · · · · · · · · · · · · · · · ·		
By credit balance January 1, 1889. By taxes, March settlement. By taxes, June settlement. By taxes, November settlement.	\$415.48 2,649.55 137.20	\$1,130.41
By amount unclaimed on pay rolls		\$3,202.23 8.48
Total credits		\$4,341.12
Dehits.		
To labor. To hardware and tools. To repairing tools. To lumber To grading To grading To gate at Lake Calhoun To use of tools.	\$3,558.46 25.01 21.49 13.60 110.50 16.88 7.00	
Total debits		\$3,752.94
Credit balance.		\$588.46
THIRTEETH WARD SIDEWALK FUND.		
· Credits.		
By credit balance January 1, 1889. By taxes, June settlement.		\$222,30 369.60
Credit balance		\$591.90



ANNUAL REPORT

OF THE

CITY TREASURER

OF THE

City of Minneapolis

For the Fiscal Year Ending December 31, 1889.

EDER H. MOULTON, - -

Treasurer.

MINNEAPOLIS: HARRISON & SMITH, PRINTERS. 1890.

CITY TREASURER'S DEPARTMENT.

EDER H. MOULTON,

City Treasurer.

JAMES B. MODISETTE.

Assistant Treasurer.

EDWARD A. CROSBY,

Teller.

JOHN F. SORENSEN,

Book-keeper.

REPORT OF THE CITY TREASURER

FOR THE

FISCAL YEAR ENDING DECEMBER 31, 1889.

MINNEAPOLIS, Minn., December 31st, 1889.

To the Honorable City Council of the City of Minneapolis:

Gentlemen—In compliance with section 21, chapter 3, of the city charter, I herewith submit statement, including the sinking fund, public library, city park and board of education, showing receipts and disbursements of my office for the fiscal year ending December 31st, 1889, also the condition of the several funds, together with other information and suggestions, which may be of interest.

Before my election to the office of city treasurer, it had been the policy of the city for some years to make all bonds required for different purposes bear

interest at the rate of $4\frac{1}{2}$ per cent.

I took an early opportunity to urge the advantage to the city of lowering this rate to 4 per cent. This suggestion met with considerable opposition at the hands of the ways and means committee, the chief argument advanced against the change, being that a 4½ per cent. bond commanded par or a slight premium, whereas, a 4 per cent bond would sell at a discount, which fact would reflect upon the credit of the city.

I explained to the committee, that a relatively higher price could be obtained fot a 4 per cent. bond than for one bearing a higher rate of interest, and if 97½ could be obtained for a 4 per cent. bond, the city was better off than if 106 were bid for a 4½ per cent. bond, and could par be obtained, it would be

equal to more than 108.

The chief reason I gave in recommending this course, was that nearly all large issues of bonds are bought by bankers and brokers to sell again. A banker finds it easier to re-sell a bond for par for which he has paid $97\frac{1}{2}$ than to dispose of one at $108\frac{1}{2}$ for which he gave 106, even if the rate of the bond were half of 1 per cent higher.

The ways and means committee adopted my recommendation, and subsequent sales have borne out my theory and shown the wisdow of the change.

Minneapolis 4 per cent. bonds have never sold below a price equal to a $4\frac{1}{2}$ per cent bond at par. The price has steadily advanced, and 104 has now been obtained. This price is equal to 113 for a $4\frac{1}{2}$ per cent. bond. No $4\frac{1}{2}$ per cent. security in this state has ever brought such a price; and if a comparison be made between the prices obtained for our 4 per cent. bonds and those obtained by communities issuing $4\frac{1}{2}$ per cents., the wisdom of the reduction will be evident.

I believe that the time has now come when Minneapolis should make her future issues of bonds at $3\frac{1}{2}$ per cent., and the chances of floating such a bond are just as good as when the reduction from $4\frac{1}{2}$ to 4 per cent. was made.

I am aware that the objection will be raised against this plan that it is an entirely new departure; that other western communities have never issued a bond with so low a rate of interest.

This argument counts for little. Some one city must take the initiative, and Minneapolis, which leads in so many things, may well be the leader in

this.

It might be well in this connection to make the bonds run 35 or 40 years,

as Minneapolis has made a large amount of her bonds to mature about the same time. If the charter does not permit it, an act of the legislature could be obtained for that purpose.

I believe that Minneapolis could obtain 97½ or 98 for such a bond, and in

At this date there is in the sinking fund \$535,358.74. Of this amount \$118,358.74 is in bank certificates drawing 4 per cent. interest. Four hundred and seventeen thousand dollars of same is in bonds of the city of Minneapolis drawing interest as follows: \$260,000 at 4 per cent.; \$135,000 at 4 per cent; and \$22,000 at 5 per cent. This fund is accumulating rapidly, and I would suggest that the bonds now hold or hereofter acquired by registered in the suggest that the bonds now held, or hereafter acquired, be registered in the name of the board of sinking fund commissioners, and that all securities of this fund be in the custody of the board of sinking fund commissioners instead of the city treasurer, as it is at present.

Respectfully submitted, EDER. H. MOULTON, City Treasurer.

SINKING FUND.

Securities in sinking fund January 1, 1890	\$425,823.0)1.
From Taxes . Receipts. Interest		\$119,960.73 17,575.00
For Matured bonds Disbursements. Bank certificates of deposit	\$28,000.00 109,535.73	11,010.00
	\$137,535,73	\$137,535,73
SECURITIES IN THE SINKING FUND.		,
Bonds of the City of Minneapolis— Nos. 1535 to 1555 inclusive, 4½ per cent interest		\$21,000.00 22,000.00 31,000.00 48,000.00 60,000.00 100,000.00 \$417,000.00 \$5,342.90 3,480.11 30,000.00 10,950.37 29,797.86 38,787.50
Receipts,		
From Balance January 1, 1889. Taxes. E. M. Johnson, sec'y, money returned, refunded on insurance Farmers' and Mechanics' Saavings Bank, bills payable Subscriptions. Dishursements.		\$48,985.04 38.024.06 22.75 25,000.00 27,095.00
For Comptroller's warrants. Present balance	\$127,217.49 11,909.36	
-	\$139.126.85	\$139,126.85

BOARD OF EDUCATION.

Receipts.

	Receipts.		
From	Taxes. Bills payable. Brewster, Cobb & Estabrook, sale of bonds. Blake Bros. & Co., sale of bonds. County treasurer, state apportionment. Sundry warrants turned back into fund. Burrows Bros. & Co. E. H. Moulton, city treasurer refund on pay roll. E. H. Moulton, city treasurer amounts unclaimed on pay rolls. W. S. Pearson, clerk, sale of old bell. """ carpet. """ black board. """ old building. """ old seats. Insurance. Sundries. Tuttion. Teachers' salaries refunded.		\$424,309.11 302,624.99 126,829.58 76,781.25 59,392.00 153.71 4.29 24.00 2.50 698.40 10.00 7.75 110.50 21.00 4.50 15.33 403.30
			100.10
	Disbursements		
For	Account overdrawn January 1, 1889. Comptroller's warrants. Coupons. Present balance.	\$1,914.65 956,969.49 2,700.00 29,958.17	
		\$991,542.31	\$991,542.31
	GENERAL FUND.		
From	Receipts. t balance, January 1st, 1889		\$63,720.80 659.778.72 266,170.47
	Licenses. Poundmasters. Western Union Telegraph Co., for rent. Western Union Telegraph Co., for light. Northwestern Telephone Exchange Co., for rent. Northwestern Telephone Exchange Co., for light. Municipal court.		$358.65 \\ 1,920.00 \\ 300.00$
	Northwestern Telephone Exchange Co., for rent		720.00 200.04 38,672.67
	Chas. F. Haney, city clerk, fees and moneys. Chas. F. Haney, city clerk, fees and moneys received January 17, 1890, which properly belongs to 1889 \$1,745.25. Engineer's permits. W. A. Barnes & Co., refund on bill. V. M. Smith, refund Dakota relief committee. New England Engineer & Carpet Co., refund on warrant.		6.799.70 9.071.89
	W. A. Barnes & Co., refund on bill V. M. Smith, refund Dakota relief committee New England Furniture & Carpet Co., refund on warrant		150.00 1,100.00
	No. 41,024. R. D. Russell, election money returned by A. R. Camp R. R. Henderson, Soldiers' Home, balance of \$55,000, contin-		1.81 9.00
	gent fund. Auger Taylor, refund on work house pay roll. The Hartford Steam Boiler Insurance Co., loss on boiler John West, supt. of work house, board of county prisoners and vegetables sold. Marville Line & Coal Co., we wants not issued.	•	592.00 12.00 274.39
	and vegetables sold		193.08 65.36 30.40
	Mayville Lime & Coal Co., warrants not issued. John S, Brown, warrant not issued. Sinking Fund Commissioners, advanced for payment of maturing bonds. Sister M. Philómena, hospital treatment. Wm. H. Lauderdale, taxes on land condemned for street pur-		28,000.00 70.00
	poses J. F. Calderwood, city comptroller, transfer licenses J. F. Calderwood, city comptroller, refund on city officers'		29.66 1.00
	pay roll		16,67 9,75 163,75
	Chas. F. Haney, city cierk, discount on typewriter. Board of Education, advertising sale of bonds. Minneapolis Street Railway Co., labor, material—repaving on cable line E. H. Moulton, city treasurer, unclaimed on pay rolls Sundry pay rolls, differences. Minneapolis Street Railway Co., relaying pavement F. L. Stetson, chief fire department Sale of horses.		233.20 59.02 8.77
	Minneapolis Street Railway Co., relaying pavement F. L. Stetson, chief fire department - Sale of horses		1,176.39 500.00
	Sale of horses. Sale of harness and weights. Sale of carboys. Work done by department	,	14.37 52.20 32.43
	Work done by department. R. Roberts, weighing, city scales. Poor department, refund. N. Adams, rent of barn. Flour City Transfer Co., rent of barn.		117.45 233.71
	N. Adams, rent of barn. Flour City Transfer Co., rent of barn		66.67 480.00

100	CITY OF MINNEAPOLIS.		
	Chas. A. Cornman, city clerk, charter and ordinance		3.00 2.50 112.50 1,000.00 50,000.00 5,000.00 1,600.00 2,600.00
For	Comptroller's warrants	\$977,148.76 28,000.00 136,575.26	
		\$1,141,724.02	\$1,141,724.02
	PERMANENT IMPROVEMENT FUND.		
	Receipts.		
From	Taxes Brewster, Cobb & Estabrook, sale of bonds. R. L. Day & Co., sale of bonds. Water works fund, returned to fund warrant No. 47,533. Minneapolis Gas Light Co., advance for paving. J. C. Plant, repairs on paving. C. A. Nimocks, paving tax for 1885, refunded North Star Woolen Mill Co., repairs on paving. Joseph Cardinal, sale of ground McMillan & Hastings, sale of building. R. J. Stark for Ringwell, amount having been paid Frankin Cook estate.	7 ,	\$253,575.41 229,468.58 198,632.00 50,000.00 206.05 9.00 33.00
	North Star Woolen Mill Co., repairs on paving. Joseph Cardinal, sale of ground. McMillan & Hastings, sale of building. R. J. Stark for Ringwell, amount having been paid Frankin Cook estate. City engineer error in pay rolls		20.00 400.00 310.00 34.87 31.50
	City engineer, error in pay rolls. Kate G. Reebeth, refund on statement, city engineer. E. H. Moulton, city treasurer, amounts unclaimed on pay rolls. Northwestern Fire & Marine Insurance Co., crematory fire Pacific Fire Insurance Co., crematory fire. Warrant No. 38,647, water works fund for amount advanced in 1888.		50.00 461.13 219.41 219.41 50,000,00
For	* Disbursements. Amount overdraawn January 1, 1889, to the amount of Comptroller's warrants. Present balance.	\$1,877.30 684,313.75 97,479.31	
		\$783,670.36	\$783,670.36
	PERMANENT IMPROVEMENT REVOLVING	FUND.	
	Receipts.		
From	Receipts. Taxes Blake Bros. & Co., sale of bonds. Municipal Investment Co., sale of bonds. Brewster, Cobb & Estabrook, sale of bonds. Board of Education, money advanced to build sewer. General fund, warrant No. 42,404. Engineer department, error in pay roll. C. A. Nimocks, erroneously refunded. F. G. Winston, advance for sewer. Lewis W. Campbelll, advance for sewer. W. A. Barnes & Co., advance for sewer. Minneapolis Street Railway Co., advance for sewer. Day & Williard, advance for sewer. Permanent improvement fund, warrant No. 43,527. Permanent improvement fund, city's portion of sewer, curb, gutter and paving		\$197,078.24 48.710.00 98,526.00 50,731.84 2,475.00 28.96 3.50 25.03 38.94 6,666,00 13,334.00 10,310.01 31,048.86 1.000.00 40.10
	Permanent improvement fund, city's portion of sewer, curb, gutter and paving		270,030.68
	Warrant No. 41.592, general fund, for amount advanced in 1889		50,000.00

Disbursements.

\$47,753.62 776,020.09

\$823,773.71

43.726.55

\$823,773,71

For Account overdrawn January 1st, 1889, to the amount of.....
Comptroller's warrants.
Account overdrawn to the amount of......

WATER WORKS FUND. **Receipts.

From Balance January 1, 1889.

	Receipts.		
From J	Balance January 1, 1889		\$101,425.71
1	Rentals		103,868,52 157,514,22
Ş	S. D. Works and others, advance for laying water mains		785.00
Į.	30ard of Education, advance for laying water mains		1,934.10 367.90
,	W. A. Barnes & Co., donation for laying water mains		* 14.86
(]	Receipts. Balance January 1, 1889		1,600.00
r	David Bergstrom, refund on pay roll		37.70 21.87
Į.	John Lingreer, refund on pay roll		11.37
(Osten Flow, refund on pay roll		21.87 16.62
ï	Minneapolis Street Railway Co., lowering water pipe		319.26
I	Minneapolis Street Railway Co., re-laying water pipe		580.96, 83.40
4	Warrant No. 41.212, permanent imp. fund, for amount ad-		85.40
,	vanced in 1888.		50,000.00
	Warrant No. 41,212, permanent imp. fund, for amount advanced in 1888. Warrant No. 42,168, permanent imp. fund, for amount advanced in 1888.		50,000.00
	Disbursements.		50,000.00
	Comptroller's warrants	8401,177.07	
1	Present balance	67,426.29	
		*468,603,36	\$468,603.36
	CITY PARK FUND.		
L'agrana I	Receipts. Balance January 1, 1889		The state of the s
,	Taxes		\$16,351.25 96.188.47
.]	Taxes. F. A. Chamberlain, cashier, sale of bonds		96,188.47 101,022.89
j	Farmers' and Mechanics' Savings Bank, temporary loan		41,116.67 33,000.00
]	Lakewood cemetery association, bills payable.		3,000.00 7,716.94
1	Ed. A. Stevens, secretary, collections.		7,716.94 355.80
i	F. A. Chamberlain, cashier, sale of bonds. Blake Bros. & Co., sale of bonds. Farmers' and Mechanics' Savings Bank, temporary loan Lakewood cemetery association, bills payable. State treasurer, balance of purchase money for state park, Ed. A. Stevens, secretary, collections. W. G. Nye, secretary— Refund of advance to contingent fund. Sale of lot 5, block 39, St. Anthony. Refund on warrant No. 1523. Refund on warrant No. 3302. Refund of taxes. State park privileges. Privileges at Lake Calhoun. Boat rentals. Sundry collections Disbursements.		
	Sale of lot 5 block 30 St. Anthony		500.00 1,500.00
	Refund on warrant No. 1523.		45.45
	Refund on warrant No. 3302		319.63
	State park privileges.		63.90 1,300.00
	Privileges at Lake Calhoun		200.00
	Sundry collections		3,011.55 326.75
	Disbursements. Comptroller's warrants		3,000
For 1	Comptroller's warrants. Present balance	\$301,229.03 4,790.27	
		\$306,019.30	\$306,019.30
	INTEREST FUND. Receipts.		
From	Balance January 1 1880		\$66,388.51
	Plake Bross agained interpret on bonds gold		240,934.36
1	blake blos., accrued interest on bonds sold		77.78 244.44
]	R. L. Day & Co., accrued interest on bonds sold		
]	Taxes. Blake Bros., accrued interest on bonds sold. R. L. Day & Co., accrued interest on bonds sold. Brewster, Cobb & Estabrook, accrued interest on bonds sold		88.89
For s	Coupons	\$247,612.50	
For s	R. L. Day & Co., accrued interest on bonds sold Brewster, Cobb & Estabrook, accrued interest on bonds sold Disbursements. Coupons Present balance	50,121.48	88.89
For s	Coupons		
For	Coupons	50,121.48	\$8.89 \$307,733.98
For (Coupons	50,121.48	\$88.89 \$307,733.98 22,069.90 129.10
For	Coupons	50,121.48	\$8.89 \$307,733.98 22,069.90 129.10 90.36
For	Coupons	50,121.48	\$8.89 \$307,733.98 22,069.90 129.10 90.36 18.87 191.46
For (Coupons	50,121.48	\$88.89 \$307,733.98 22,069.90 129.10 90.36 18.87 191.46
For	Coupons. Present balance FIRST WARD FUND. Taxes. John Foley, street commissioner, sale of earth. A. B. Merriam, sidewalk tax refunded. E. H. Moulton, city treasurer, unclaimed on pay rolls. Repairing sidewalk, etc., warrant No. 47,534. Error in extension of pay roll. Warrant No. 45,306, general fund, for amount advanced in 1886 Dishursements.	50,121.48	\$8.89 \$307,733.98 22,069.90 129.10 90.36 18.87
For	Coupons. Present balance FIRST WARD FUND. Taxes. John Foley, street commissioner, sale of earth. A. B. Merriam, sidewalk tax refunded. E. H. Moulton, city treasurer, unclaimed on pay rolls. Repairing sidewalk, etc., warrant No. 47,534. Error in extension of pay roll. Warrant No. 45,306, general fund, for amount advanced in 1886 Dishursements.	\$07,733.98 \$307,733.98	\$88.89 \$307,733.98 22,069.90 129.10 90.36 18.87 191.46
For	Coupons. Present balance FIRST WARD FUND. Taxes. John Foley, street commissioner, sale of earth. A. B. Merriam, sidewalk tax refunded. E. H. Moulton, city treasurer, unclaimed on pay rolls. Repairing sidewalk, etc., warrant No. 47,534. Error in extension of pay roll. Warrant No. 45,306, general fund, for amount advanced in 1886 Dishursements.	\$0.121.48 \$307.733.98 \$938,24 23,737.95	\$8.89 \$307,733.98 22,069.90 129.10 90.36 18.87 191.46
For	Coupons	90,121,48 \$307,733,98	\$8.89 \$307,733.98 22,069.90 129.10 90.36 18.87 191.46

SECOND WARD FUND.

Receipts.

	necerpus.		
Fron	n Balance January 1, 1889. Taxes. John H. Brown, street commissioner, sale of earth. Dual City Collection Bureau, rebate on tax. Repairing sidewalk, etc., warrant No. 47,535. Warrant No. 43,794, transfer. Refund on warrant No. 42,171 Dishursements.		\$5,672.43 23,027.94 163.00 56.33 603.35 22.55
For	Comptroller's warrants. Present balance.	\$27,949.25 1.596.85	
		\$29.546.10	\$29,546.10
•	THIRD WARD FUND.		
	Receipts		*************
From	Taxes Hugh Wilson, street commissioner, repairing of sidewalk. Hugh Wilson, street commissioner, sale of earth. E. H. Moulton, city treasurer, unclaimed on pay rolls. G. A. Dale, advance for sidewalk. Repairing sidewalks, etc., warrant No. 47,536. City engineer, certificate No. 10,038. No. 8,970. No. 8,976. No. 11,596. No. 11,485. Warrant No. 40,779, general fund, for amount advanced in 1886.		\$48,754.01 1.00 184.76 13.61 3.64
	Repairing sidewalks, etc., warrant No. 47,536. City engineer, certificate No. 10,038. No. 8,970.		1,013.31 33.18 37.80
	No. 8,973		19.04 98.51
	" " No. 11,485		43.33
	Warrant No. 40,779, general fund, for amount advanced in 1886	S	5,000.0
	Disbursements.		
For	Amount overdrawn January 1, 1889, to the amount of	\$260,57 48,536.37 6,405,25	
		\$55,202.19	\$55,202.19
	FOURTH WARD FUND.		
Even	Balance, January 1st, 1889.		\$4,722.94
rioni	Balance, January 1st, 1889. Taxes. T. B. Walker, advance for grading J. A. Ridgeway, advance for grading J. A. Ridgeway, donation for grading Minneapolis Street Railway Co., grading Robt, McMullen, street commissioner, sale of earth W. F. Dealing, supt. sidewalks, labor performed E. H. Moulton, city treasurer, unclaimed on pay rolls. Repairing sidewalks, etc., warrant No. 47,537. Error in pay roll. City engineer, certificate No. 9,396. "10,737" "7,737" 11,583. Dislumsements		70,025.13 1,000.00 800.00 226.66 236.75 9.00
	E. H. Moulton, city treasurer, unclaimed on pay rolls Repairing sidewalks, etc., warrant No. 47,537.		3,35 16,21 265,54 1,75
	City engineer, certificate No. 9,396	. `	15.70 197.76 198.00 7.00
For	Comptroller's warrants. Present balance	\$73,926.39 3,799.40	
		\$77,725.79	\$77,725.79
	FIFTH WARD FUND.		
12	Receipts.		97 740 9 4
From	Balance January 1, 1889. Taxes Sixth ward street fund, transfer warrant No. 39,825. Minneapolis Street Railway Co., grading. Minneapolis Street Railway Co., laying sidewalks. J. M. Cole, street commissioner, crosswalk.		\$7,740.3 4 88,481.6 2 750.0 0 298.23 42.00 10.00
	Receipts. Balance January 1, 1889. Taxes Sixth ward street fund, transfer warrant No. 39,825. Minneapolis Street Railway Co., grading Minneapolis Street Railway Co., laying sidewalks. J. M. Cole, street commissioner, crosswalk. " "repairs on sidewalk, etc. E. H. Moulton, city treasurer, refund on pay roll. Unclaimed on pay rolls. C. C. Spotswood, refund on pay roll. Repairing sidewalks, etc., warrant No. 47,538. City engineer, certificate No. 7,609. No. 7,927. No. 7,746. Dishursements.		16.20 88.67 43.15 28.44 754.16 19.80
			31.90 20,33
For	Comptroller's warrants Present balance	\$94,349.74 3.975.10	
		\$98,324.84	\$98,324. 8

SIXTH WARD FUND.

- 1	ł	ec	ei	pts

	Receipts.		
Fron	Balance, January 1st, 1889.		\$520.54 31,165.41
	A. Graber, advance for sidewalk		9,10
	E. H. Moulton, city treasurer, unclaimed on pay rolls Repairing sidewalks, etc., warrant, No. 47,539		.82 344.15
	City engineer, certificate No. 8,009		40.34
	9,932		11.20 25.71
			18.67
	Balance, January 1st, 1889. Taxes. A. Graber, advance for sidewalk. E. H. Moulton, city treasurer, unclaimed on pay rolls. Repairing sidewalks, etc., warrant No. 47,539. City engineer, certificate No. 8,009. 9,032. 8,654. 7,879. 7,831. 8,343.		37.34 20.67
	Disbursements.		
For		\$29,092,70	,
	Comptroller's warrants. Present balance.	3,101.25	
		\$32,193.95	\$32,193.95
	SEVENTH WARD FUND.		
	Receipts.		
From	Balance January 1, 1889.		\$2,861.14
	Taxes		14.456.29
	ber		493.90
	John Gund Brewing Co., refund warrant No. 43,998 Repairing sidewalks, etc., warrant No. 47,540		16.17 196.13
	E. R. Barber, grading East Lake street		74.67
	Ellen L. Barber, grading East Lake street		37.33 1.62
	City engineer, certificate No. 7,408.		38.25
	" " No. 8,413		24.70 14.54
	No. 44,290		21.23
	C. M. Spillman, street commissioner, sale of earth and lumber. John Gund Brewing Co., refund warrant No. 43,998. Repairing sidewalks, etc., warrant No. 47,540. E. R. Barber, grading East Lake street. Ellen L. Barber, grading East Lake street. E. H. Moulton, city treasurer, unclaimed on pay rolls. City engineer, certificate No. 7,408. "No. 8,413. "No. 11,520. "No. 14,290. "Warrant No. 44,970, general fund, for amount advanced in 1886.		1.600.00
	Dichursements		
For	Comptroller's warrants.	\$17.913.57	
	Comptroller's warrants. Present balance.	1,922.40	
		\$19,835.97	\$19,835.97
	EIGHTH WARD FUND.		
	Receipts.		
From	Balance January 1st. 1889		\$17,866.48
	Taxes		44,404.90 1,116.50
	J. S. Tripp, street commissioner, grading on 22d street		50.00
	City engineer, certificate No. 11,558		$\frac{48.72}{425.24}$
	E. H. Moulton, city treasurer, unclaimed on pay rolls		16.33
	Balance January 1st. 1889. Taxes. J. S. Tripp, street commissioner, sale of earth. J. S. Tripp, street commissioner, grading on 22d street. City engineer, certificate No. 11,558. Repairing sidewalks, etc, warrant No. 47,541. E. H. Moulton, city treasurer, unclaimed on pay rolls. J. S. Tripp, street commissioner, refund on pay roll.		1.60
	Disbursements.		
For	Comptrollers warrants. Present balance.	\$58,568.39 5.361.38	
	-	\$63,929.77	\$63,929,77
	NINTH WARD FUND.	, ,	
From	Balance January 1st, 1889		\$1,405,25
FIOIII	Taxes		18,284.03
	John Flemming, street commissioner, sale of stone and earth J. C. Valker, sale of earth		295,35 17,00
	Geraldo Tramulato, sale of earth		40,00
	Taxes. John Flemming, street commissioner, sale of stone and earth J. C. Valker, sale of earth. Geraldo Tramulato, sale of earth. Repairing of sidewalks, etc., warrant No. 47,542. E. H. Moulton, city treasurer, unclaimed on pay rolls.		239,71 1,50
	Disbursements.		
For	Comptroller's warrants	\$17,240,20	
	Present balance	3,042.64	-
		\$20,282.84	\$20,282.84

TENTH WARD FUND.

TENTH WARD FUND.		
Receipts.		
From Taxes. Refund on warrant No. 39,511. Wm. J. Bursell, Vincent Reeves and Benjamin H. Billings.		\$7,654.72 1,036.66
money advanced for street purposes		1,000.00
Wm. J. Bursell, sale of earth. W. R. Metcalf, street commissioner, sale of earth and stone. E. H. Moulton, city treasurer, unclaimed on pay rolls		30.00 157,91 15.00
Disbursements.		
For Account overdrawn January 1st, 1889, to the amount of Comptroller's warrants	\$759.55 8,674.10 460.64	
_	\$9,894.29	\$9,894.29
ELEVENTH WARD FUND.		
Receipts.		
From Balance January 1, 1889		\$1,390.13 27,341.04 4.95 550.53
		(8,0,630
Disbursements. For Comptroller's warrants	\$28,631,91	
Present balance	654.74	
	\$29,286,65	\$29,286.65
TWELFTH WARD FUND		
Receipts.		
From Balance January 1, 1889		\$253.92 6,979.38
Taxes W. Marr, street commissioner, sale of earth. E. H. Moulton, city treasurer, unclaimed on pay rolls		467.57 1.75
Disbursements.		
For Comptroller's warrants	\$7,358.27 344.35	
	\$7,702.62	\$7,702.62
THIRTEENTH WARD FUND.		
Receipts		
From Balance January 1, 1889 Taxes E. H. Moulton, city treasurer, unclaimed on pay rolls		\$1,352.71 3.571.83 8.48

Disbursements.

\$3,752.94 1,180.08 \$4,933.02

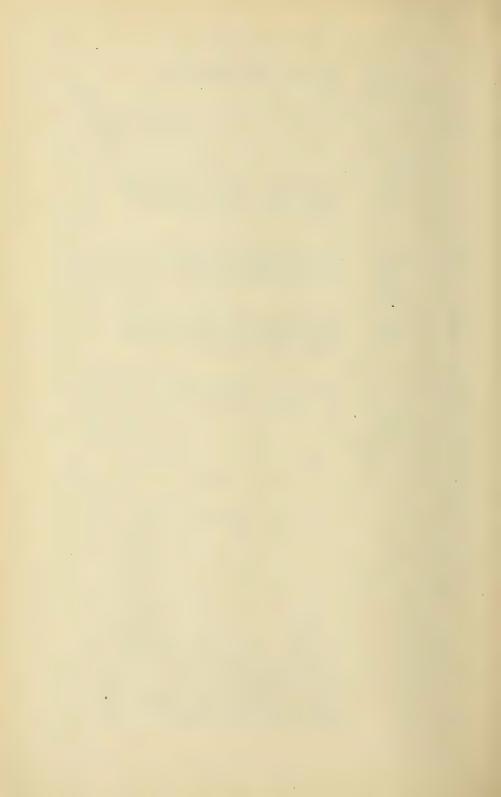
\$4,933.02

For Comptroller's warrants...
Present balance...

TOTAL RECEIPTS AND DISBURSEMENTS FOR YEAR.

Included in these footings are various transfers from one fund to another for advances previous to 1889, for net receipts and disbursements. See Comptroller's report, exhibit E.

	BALANCES JA	BALANCES JANUARY 1, 1889.	Gross	Gross Re-	Gross Dis-	PRESENT BALANCES	ALANCES.
	Debit.	Credit.	Receipts.	ing balances.	bursements.	Debit.	Credit.
Cash on hand January 1st. 1889. Libray fund. Board of Education. General fund. General fund. Pernament improvement fund Pernament improvement fund Pernament improvement fund Nater works fund City park fund Siking fund Firt ward fund Firt ward fund Fifth ward fund Fifth ward fund Seventh ward fund Sixth ward fund Fifth ward fund Fifth ward fund Sixth ward fund Firth ward fund, Jan. 1, 1889 Firth ward fund, Jan. 1, 1889 Fullig Library Fenth ward fund, Jan. 1, 1889 Fenth ward fund, Jan. 1, 1889	1.914.05 1.914.05 1.877.39 147.73.02 143.83	68.720.80 68.720.80 68.380.37 68.388.37 68.388.37 7.730.94 7.730.94 1.480.33 1.480.33 1.480.33 1.480.33 1.480.33 1.480.33	200,141.28 1,000,003,29 1,000,003,20 1,000,0	28.8.2.2.8.8.2.2.6.9.9.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	\$127.217.49 \$65.669.49 \$1,065.669.49 \$1,065.669.49 \$11.77.70 \$11.77.70 \$1.7	### 17.56.35 11.909.036	\$11.006.38 \$2.056.34 \$2.056.35 \$1.00
City of Minneapolis	\$340,657.19	\$340,657.19	\$5,242,810.53	\$5,529,963.79	#5,133,159.62	\$440.530.72	\$440.530.72



ANNUAL REPORT

OF THE

CITY ENGINEER

OF THE

City of Minneapolis

FOR THE

Fiscal Year Ending December 31, 1889.

ANDREW RINKER, City Engineer.

MINNEAPOLIS: HARRISON & SMITH, PRINTERS, 1890.

CITY ENGINEER'S DEPARTMENT.

ANDREW RINKER,

City Engineer.

R. L. COX,

Chief Clerk.

CHARLES O. HUNTRESS,

Ass't City Engineer.

W. H. GRAVES,

Head Bookkeeper.

WATER WORKS DIVISION.

W. W. REDFIELD,

G. BOGERT.

Engineer.

Draughtsman.

SEWER DIVISION.

W. D. VAN DUZEE,

Engineer.

R. J. STARK,

Bookkeeper.

CARL ILSTRUP,

Ass't Engineer.

J. W. FLEU,

Chief Inspector.

G. W. SUBLETTE,

Sup't of Construction.

AUGUST RYDH,

Time Keeper.

M. E. SLEEPER.

Street Foreman.

F. C. DETERLY,

Transitman.

Three Levelmen, four Rodmen, four Inspectors, one Clerk, two Draughtsmen.

STREET DIVISION.

I. E. HOWE.

Engineer.

B. H. DURHAM,

Transitman.

E. R. DUTTON,

Ass't Engineer.

W. F. DEALING,

Sup't of Sidewalks.

F. G. PARKHILL,

Assessment Clerk.

Four Levelmen, six Rodmen, one Draughtsman, one Clerk.

BRIDGE AND BUILDING DIVISION.

F. W. CAPPELEN,

A. B. COE.

Engineer.

Ass't Engineer.

One Draughtsman, one Rodman.

CITY ENGINEER'S REPORT.

MINNEAPOLIS, Minn., January 1, 1890.

To the Honorable City Council, City of Minneapolis:

Gentlemen—In accordance with your directions I herewith submit the annual report of work done under the direction and supervision of the engineering department during the fiscal year ending December 31st, 1889. In so doing I present herewith schedules and tables showing in detail the kind

and character of work done and the cost of the same.

Owing to many requests from officials of other municipalities and officers of several of the bureaus of the census department, asking for information covering nearly every branch of our public works, I would deem it proper at this time to preface this report with a general description of the public works done not only during the past year, but as they now exist, so far as they pertain to the municipal work coming under the direction and supervision of the engineering department. I do so with a feeling that my connection with the department during the period of the greatest prosperity of our city, and during the period in which the greater portion of our public works have been constructed, will be considered a sufficient excuse for my attempting to show or describe the character and extent of the public improvements as they exist to-day. I desire to show that since entering the department nearly nineteen years ago, the work that then required a force of four men in the engineering department has grown to such an extent as to require a ten-fold increase in the force, and also to show that practically all of the public improvements have been made during the past eight years.

The engineering department has charge of all public works done in the city except that done by the park commissioners. For the convenience of operating the department, it has been deemed best to subdivide it in the follow-

ing manner:

The general department, having charge of the street improvements such as grading, paving, laying sidewalks, setting curbstone, making surveys for street openings, making assessment rolls for all special assessments, setting street and building grades, etc. In this department are kept a record of all surveys of streets, maps and plats of all additions to the city, topographical maps and profiles showing elevations of all streets and their grades, etc.

The sewer department has charge of the construction of all sewers, drains, etc.; keeps a record of all work done by plats showing size and location of sewers, with their house, manhole and catch basin connections; also issue all permits for connections, and inspect all house connections made by plumbers

for sewer and water within the lines of the streets.

Water department, having charge of all engineering in connection with the water works, keeping records of all mains laid, hydrants and valves set, etc.

Bridge and building department, having charge of all bridges and the erection of fire department and water works, and such other buildings as the

city council may order built.

The cleaning of all streets and the repairs of all streets not paved are under the charge of a street commissioner, one street commissioner being appointed by the council for each ward. All street commissioners are under

the general supervision of the city engineer and do all street grading in their respective wards when the same is not done by contract: all street sprinkling is done under their immediate supervision, and they also have charge of the repairs of all sidewalks where the property owner fails to make the necessary repairs.

PAVING.

At the end of the fiscal year there were 618,139 square yards of street paving, or a total of 24,672 miles of streets paved. Of this amount 90,994 square yards, or 4,144 miles, were laid during the year. Of the total paving, about 80 per cent, is cedar block, the remainder granite. The total expenditure for paving has been \$887,980. The amount expended during the year just ended has been \$93,774. In 1890 there is to be laid 112,247 square yards, or 4,326 miles, at an estimated cost of \$118,013. In this connection 1 would say that all the street paving done in the city has been done during the past eight years, an average of three miles per year. Cedar block paving, in which the blocks are six inches long and from four to eight inches in diameter, are laid on pine plank two inches thick; the interstices are filled with gravel (no cement or paving composition is now used.) The cost per square yard averages about \$1. This price includes excavation and removal of material. There has been no granite paving laid during the past three years.

CURBSTONE.

There are now 67.51 miles of curbstone set in the city, the cost of which has been \$396,143. During the past year 8.11 miles have been set at a cost of \$38,422. Of the curbstone set during the past year, 70 per cent. was the artificial stone made of Portland cement and sand; the remaining 30 per cent. was the Kettle river sandstone, the cost of the latter being \$1.10 per foot while the former averaged $80\frac{1}{3}$ cents per foot. During the year 1890 there are to be 9.967 miles of curbstone set at an estimated cost of \$56,957. As is the case with the paving, the first curbstone was set in the year 1882. The artificial stone has not been in use more than eighteen months; previous to that time the stone used for curbing was Kettle River sandstone, Mankato, and Stone City (Iowa), limestone. The use of limestone as a curb has been entirely discontinued, the Kettle River sandstone being the only natural stone used for curb: the greater potion of all stone now in use in this city being of that kind.

SIDEWALKS.

There were laid during the year 1889, 191,961 lineal feet of sidewalk, or 34.499 miles, of which 25.319 miles were plank (2 inch pine plank laid upon three 4x4-inch stringers), and 9.182 miles were artificial stone and brick. Of the artificial stone and brick 91½ per cent. was laid by the property owner, and 8½ per cent. by the city, while the city laid 64 per cent. and the property owner 36 per cent. of the plank sidewalk. It must be understood, however, that the abutting property pays the whole cost of constructing the sidewalks in front his property; but when it is built by the owner, the said owner is released from paying the assessment or the assessments are refunded, while the assessments are collected for that built by the city. The assessments for sidewalks ordered for 1890 amount to \$254,001, there being 110.77 miles of sidewalks ordered for that year.

STREET SPRINKLING.

From the tables herewith submitted, it will be seen that there has been 100 miles of streets sprinkled, at a cost of \$55,242.12. I think I may safely say, without the fear of contradiction, that there is no work done by or under the direction of municipal authority that affords more comfort and satisfaction to the general public, and the cost of which is more willingly paid as a special assessment upon abutting property, than h is work of street sprinkling. It not only furnishes immunity from dust,

but makes the districts sprinkled more habitable during the summer months in which the work is required to be done, to say nothing of saving the house-keeper more in wear and tear on furniture, carpets, etc., that the cost of sprinkling.

TOPOGRAPHY.

There is an area of about 54 square miles embraced within the limits of the city of Minneapolis, 42 square miles of which lies west and southwest of the Mississippi River: the greatest length north and south being

10 miles, and east and west 64 miles.

The Mississippi River flows through the city a distance of $8\frac{1}{2}$ miles, and along its easterly side (at the south end) an additional distance of $3\frac{1}{2}$ miles, having a total length within the limits of the city of twelve (12) miles, within which distance it has a fall of 105 feet. Fifty feet of this fall occurs where the waters of the river are divided by Hennepin Island, a distance of 5 miles from the extreme northeasterly, and $2\frac{1}{2}$ miles from the extreme easterly limits of the city. This fall (the Falls of St. Anthony) located almost in the geographical center, furnishes a large percentage of the power required in the manufacturing center of the city. Below the falls the river flows between banks varying in height from 80 to 120 feet, and has an average velocity of about three to four miles per hour, while above the falls the banks have an average height of about 15 feet, and the water flows at a velocity of about $\frac{1}{2}$ of a mile per hour

Tributary to the river are Shingle Creek in the extreme northern. Bassett's Creek in the central and Minnehaha Creek in the extreme southern portions of the city, all flowing through the city from the west. Minnehaha Creek has its headwaters at Lake Minnetonka, and is the outlet of the lakes in the southwestern portion of the city, known as Rice Lake. Lakes Amelia, Harriet, Calhoun. Cedar and Lake of the Isles, the first and last named having a water area of about 80 and 120 acres respectively, while the remainder have an area varying from 300 to 500 acres each; these lakes all being in the extreme southwestern portion, have a comparatively small part of the drainage

area of the city tributary to them.

The elevation of the surface of the water in the four last mentioned lakes varies from 148 feet above city datum in Cedar Lake, to 136 feet above datum in Lake Hariet; or from 52 to 64 feet above the surface of the water in the

river at the steel arch bridge, immediately above the falls.

Basset's Creek has its headwaters at Medicine Lake, and flows through Keegan's Lake, and has tributary to it several other small lakes outside, but none within the city limits. It is, however, the outlet for quite an extensive drainage area, lying immediately outside of the city, and through it must be provided an outlet for the low land within the city, known as the Valley of Basset's Creek. The establishment of a drainage and sewerage system for this district has, I think, been satisfactorily solved by the construction of the North Minneapolis sewer tunnel and the intercepting sewer connecting therewith, and the recent straightening of the creek, of which further mention will be made in this report.

Shingle Creek, being in the remote northern portion of the city and having the smallest drainage area of the streams mentioned, does not present any serious obstacles to an economical solution of the drainage system for that

district.

The elevation of street grades within the city varies from 100 feet above datum to 230 feet above datum. The general elevations, however, do not vary more than 60 feet, or from 110 feet to 170 feet above city datum; city datum being 709.2 feet above the level of the sea.

THE SEWERAGE SYSTEM.

The sewerage system of the city is at the present time divided into nine districts, having areas varying from 380 to 4,000 acres each. Each of these districts have their outfalls into the river at a point below the falls of St. Anthony. These outfalls in every case are constructed in or through the formation known as the St. Peter sandstone. This

formation in many cases is not what its name implies, and cannot, strictly speaking, be termed a sandstone, as its resistance to a crushing load in many places scarcely greater than ordinary bank sand, and in no case during an experience extending over a period of more than ten years of almost uninterrupted work in constructing these tunnels, have we found it sufficiently compact to admit of its being used as a water carrier without a lining of some character to prevent corosion.

These outfall tunnels are in most cases not more than six or eight hundred feet in length, and are generally constructed with a semi-circular arch of concrete or beton, with perpendicular side walls of limestone, and the bottom in

the form of an inverted segmental arch paved with stone and brick.

Cuts showing the connections between these tunnels and the top main sewers, with their general sizes, dimensions and depths, are embodied in this report. Of the nine districts for which the outfalls are now constructed, six of them are designed to carry the combined flow of storm-water and sewerage, while three are designed to carry only a limited portion of the storm-waters for the district for which they are constructed; the latter are the districts connected with the North, the North-East Minneapolis, and the Third avenue

northeast districts.

Where storm-waters are provided for we have adopted the Adams formulafor the greater part of our system, and provide for a rain-fall of from $1\frac{1}{2}$ to 2 inches per hour. We have found from close, protracted observation that sewers of sufficient size to provide for a rain-fall of not less than one and one-half inches per hour are best adapted for the quick, heavy rain-falls of this latitude. The sewers of our system are constructed with a gradient so slight that the sewage flowing therein has a velocity less than two feet per second, while the average flow through the entire system can be safely placed at not less than four feet per second. It can thus be seen that sewage enterage entering the system at any point can be carried to the outfall at an average velocity of $2\frac{\pi}{4}$ miles per hour, thus affording the public immunity, to a great extent, from gases generated in sewers where the sewage has little or no velocity as is often the case, and requiring much less expense in the matter of ventilation, a perfect and satisfactory system of which I may safely say has not yet been devised, although vast sums of money have been expended in many of the leading cities of the world to accomplish this much desired end. With these facts in view we have undertaken to devise a sewage system for this city in such a manner that the necessity for an expensive and at best an unsatisfactory system of ventilation might be reduced to a I do not wish to be understood, however, by this statement that we have ignored the matter of ventilation entirely, but on the contrary have provided each of the manholes (which on the lines of the smaller sewers are about 150 feet apart) with perforated covers. We have also in operation, at the ends of several of the lateral sewers, automatic flushing tanks, and have now under construction about 75 more, which will furnish an abundant supply of water for flushing purposes at such times as storm-waters cannot be depended upon for that work.

A map showing the sewer system as now constructed, accompanies this report, an examination of which will show that a comparatively large portion of the sewers now built are main or trunk line sewers, the construction of which was necessitated by the rapid growth of the city. In order to reach portions of the city that can now be called thickly populated and which a few years ago were practically unsettled, it was found necessary to carry on the work of building these main sewers at a more rapid rate than is actually the case in cities of more moderate growth, and as a consequence, large sums of money were expended in these mains before the work of building laterals could be carried out to any great extent. This is particularly true of portions of the Third and Eighth wards, the outlets for the sewerage of which is through the North Minneapolis tunnel, and the Twenty-sixth and Twenty-seventh

streets main sewer and tunnel.

In order to show the progress made on the work of constructing the system as it now exhists, it may be well to state that the work was commenced on the 15th day of June, 1871; during that year and the year following, what is known as the Washington avenue main sewer on Washington avenue, from Hennepin avenue to Eighth avenue south and the tunnel from Washington

avenue to the main under Eighth avenue south, were constructed. Between that time and the beginning of the year 1882, a few lateral sewers connecting with this main were built. In all there was but 2.57 miles built during the eleven years preceding 1882. At the present time there are 60 miles of sewers and 3.5 miles of tunnels built, or a total of 63.5 miles now built and in operation, 96 per cent. of which have been built during the past eight years or an average of 7.6 miles per year during that time. This average has been nearly doubled during the past year, there having been nearly 14 miles built during the season of 1889, and there is now ordered to be built during 1890 13.2 miles. It may not be out of place at this time and in this connection to give a general description of the North Minnneapolis sewer tunnel, as that has been a work that has extended over a period of about five years and is one of such importance with the sewerage system that I feel that the reasons leading to, and the objects sought to be obtained by its construction may be stated at this time.

In recommending the carrying out of this work to the city council, I had

three objects in view, viz:

First. Construction of a more satisfactory system of sewerage for the territory known as the valley of Bassett's creek, and the drainage area naturally tributary thereto, than could be accomplished by depositing the sewage into the river above the falls, owing to the fact that a considerable portion of the land in that vicinity being at an elevation that permitted its over-flow during periods of high water in the river, during which time the waters of the river would flow back and remain in the sewers for that district.

Second. The construction of the tunnel would admit of an intercepting sewer being built in said Bassett's creek valley, that would not only be free from back-flow from the river, but would be of such a depth as to admit of draining the lands adjacent thereto in such manner as to render it much more valuable for building purposes than if the sewer were built at an elevation that would permit the sewage to flow into the river even at the ordinary stage of water, thereby largely increasing property values in that vicinity.

Third. By the building of this tunnel the entire sewage of the above named territory, together with all the territory lying north of Bassett's creek and west of the river, could be collected and deposited into the river below the falls where the waters flow between high banks and have a rapid current.

That these objects can and will, and have already to a great extent been accomplished, has already been demonstrated, and I feel confident that the value of this work is not over estimated when we state that, having accomplished any one of the objects named, the city has been fully justified in making the expenditure required to construct said tunnel. It is intended that the larger portion of the storm-waters of this district shall be taken to the river above the falls by a system of storm-water over-flows, and during a large portion of each year all the water of Bassett creek can be intercepted and carried through the intercepting sewer and tunnel into the river below the falls, if it is deemed advisable or desirable to do so.

Maps, plans and profiles showing the location, size and depth of the tunnel and intercepting sewer, together with cuts showing the manner in which connections are made with the creek, etc., are also submitted herewith.

To enter into detail and attempt to describe the character and extent of this work in any but a general way would occupy more time and space than can be devoted to this report; but I may here add that the cost of this work was materially increased on account of changes ordered by your honorable body after its commencement, whereby the length of the line was increased 946.44 lineal feet, and 229 feet already constructed were abandoned. change was deemed advisable on account of the original line (running on a straight line from the intersection of Second street and Eighth avenue south to the intersection of Fifth street and Sixth avenue north) running too near the river, and also on account of building the tunnel under private property and incurring a greater liability for damage to said property than was necessary. The line was accordingly changed to the line shown on the map, and the greater portion of the work built under the streets. While this change increased the length of line, it did not, in my opinion, improve the quality of the material through which the work was being built. It was found necessary to use timber supports and covering to carry on the work with safety to the workmen from the time the change was made until the completion of the work. In an experience of several years in constructing tunnels in this sandstone formation, below the falls, this was found necessary. The sandstone through which this tunnel was constructed proved to be much softer than that through which other tunnels were built below the falls, and large quantities of water were encountered flowing mostly through horizontal seams in the sand rock, the principal one being parallel to and about 21 inches from the botton of the excavation, nearly the entire length of the work. Over 1,000 drain pipes were inserted into the masonry to carry the water from this water seam, the pipes varying from one to eight inches in diameter. The water has now entirely ceased flowing through the larger portion of these pipes, and the flow has greatly diminished in all of them. The character of the material was found to be such that in many cases it was deemed best to increase the thickness of masonry to the thickness called for in the original plans and specifications. This also necessitated excavating large quantities of materials not contemplated in the original estimates. Five thousand six hundred and forty feet of the tunnel was built by work on one heading: air was furnished by forcing it through a four inch wrought iron pipe by means of an air pump. Work was carried on during the greater portion of the time by working three crews in shifts of eight hours each during the twenty-four hours of each working day. The material through which the tunnel was built, from it mouth to a point about 80 feet north of Third avenue north, was the so-called sand rock: from that point to the northerly end the material was sand, clay and boulders. The entire tunnel through this material was constructed below the level of the water in the ground. Many difficulties were encountered, owing to the quantity of water in the sand: the headings were drifted by placing timber bulkheads every 24 inches and solidly timbering sides, top and bottom before the masonry could be put in place. It was also found necessary to timber the excavation where it was made in the blue clay at the northerly end of the

The length of tunnel constructed, including the piece abandoned (229 lineal feet), is 7,404.5 feet. To this should be added depths of shafts now built and in use—162.5 feet. The cost of the tunnel has been \$202,780. This cost does not include value of machinery and tools on hand when work was completed, which have been charged to general tool account and credited to

tunnel account.

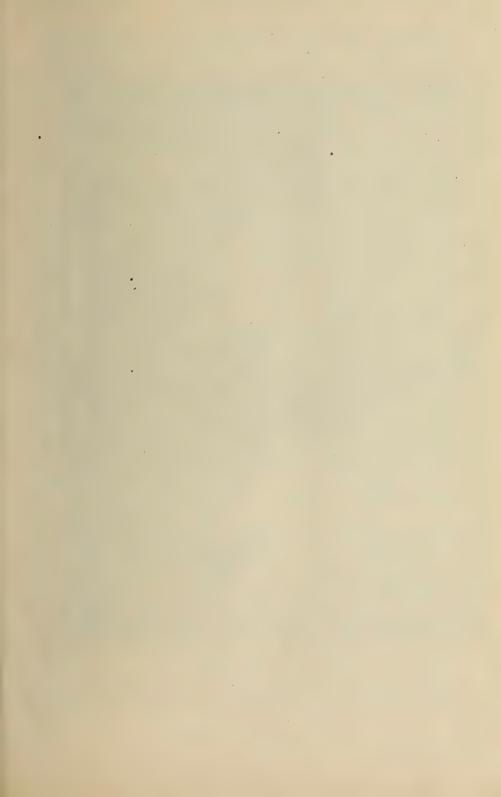
The pay rolls for sewer work (including all labor, teams and cost of hoisting machines) during the year 1889, amount to \$313,508.49. There has been 295,162 cubic yards of earth and 8,462 cubic yards of rock removed in excavating for sewers during 1889: 9,935,116 brick were used in the work, costing \$95,166.38: 29,662 barrels of cement costing \$36,457.92; and 1,081 tons of coal were consumed in pumping water and hoisting material excavated from sewer branches during the year.

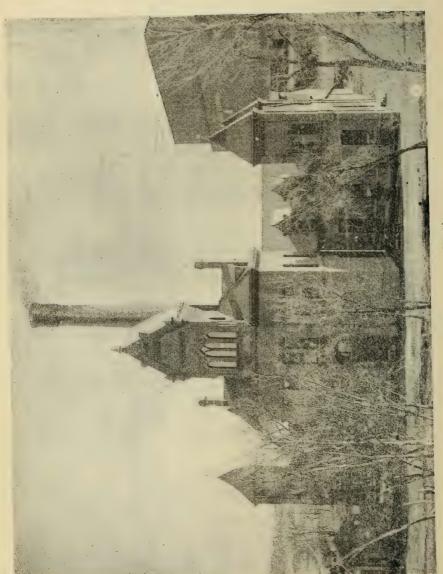
Inventory of machinery on hand January 1, 1890, not including tools, lum-

ber and brick, amounts to \$15,474.39.

WATER WORKS.

The year just closed is one in which the water works system has undergone a great change in the manner of supplying the city with water. Heretofore all water used in supplying the citizens was taken from the Mississippi River at a point immediately above the falls, and has been pumped by hydraulic power, and although the water used for domestic purposes has been taken from a crib located near the middle of the west channel of the river and carried through an iron in-take pipe to the pumping wells, a feeling has existed among many of our citizens that the quality of the water was not as good as it should be. This feeling may or may not have been well founded, and the public may have had just cause for alarm if the city had continued to furnish drinking water from this source. And, although many of our citizens who have given the matter considerable attention, did not share the opinion that the water taken from this source was sufficiently contaminated to cause alarm, yet the feeling prevailed pretty generally that it would be better to take the water from a point on the river





North Side Pumping Station.

further removed from the center of the city. It was then decided to erect a new pumping station on the river bank near Shingle Creek. A tract of land was purchased, containing about 10 acres, and a pumping station erected that would be likely to meet the requirements of the city for a number of years to come. In this station two of the Worthington High Duty Compound Condensing engines have been placed, having a daily capacity of 15,000,-000 gallons each, against a pressure of 75 pounds per square inch, or a head of 175 feet, or a total capacity of 30,000,000 gallons per day, raised 175 feet. The building was erected of sufficient size to admit of doubling this pump-

ing capacity when it is deemed necessary.

The water is taken from a crib in the channel of the river and conveyed to the pumping wells through a brick conduit five feet inside diameter. The force main leading from the pumps is three feet in diameter and has a length of 12,000 feet, or 2.27 miles. Removing the pumping station necessitates the use of steam as a power, as the engines in use are guaranteed to develop a duty of 115,000,000 foot pounds, or to raise 115,000,000 pounds of water one foot high with each 100 pounds of coal consumed, (the coal specified being the best quality of anthracite.) This duty can, however, be considerably reduced on the average daily work performed without materially increasing the cost of pumpage over what it was heretofore by water-power from separate stations, as has been the case. Another force main has been ordered laid from Shingle Creek station to Lyndale avenue, and along Lyndale avenue, to connect with the main now laid on the lower end of said avenue, thereby furnishing an additional supply main direct from the pumping station to the south end of the city via Lyndale avenue.

From tests recently made it has been shown that this will afford a satisfactory and sufficient distribution through the entire system of mains as now

factory and sufficient distribution through the entire system of mains as now

laid or may be laid for several years to come.

The cost of the water station with the land, engines, boilers, crib and intake, and 12,000 feet of 36 inch force main, has been \$329,741.62. One engine of this plant now furnishes all the water used in the city in connection with the city water-works. The pumps heretofore used at the East and West side stations being now out of service and held in reserve until such time as the additional force main on Lyndale avenue shall be laid. The grounds upon which the Shingle Creek station is located are sufficient in size to admit of being used for park purposes until such time as the city may need it, and but a small expenditure of money would be required to develop it into a beautiful park, its topography being well adapted for that purpose. I would recommend that your honorable body take such action as may be necessary to utilize it for that purpose, thereby not only beautifying the grounds and making them correspond with the improvements now placed thereon, but furnishing the residents of that portion of the city with a public park at a slight expense to the city.

Cuts of the pumping station, boilers and engines, together with a map showing the size and locations of all mains laid in the city is herewith sub-

mitted.

In order to show that the same proportionate increase has taken place in the extension of the water-main system, as has been the case with nearly all of our permanent improvements, I quote the following figures: "Total length of mains laid previous to 1882, 20 miles: total length now laid, 141 miles, or 86 per cent. of the whole amount laid during the last eight years.

In this connection I would also recommend that your honorable body take some action toward the prevention of water waste. It is a well-known fact by all who have given the matter any consideration that there is an extravagant waste of water for domestic purposes. I do not wish, however, to be understood as being an advocate for reducing the quantity of water supplied to consumers to such an extent as to prevent their having a liberal or generous supply of water for the purposes required; and also believe it to be good public policy for the city to furnish water to consumers at a price that will as nearly cover the cost as possible; and that a niggardly policy is as much to be condemned as one permitting an extravagant waste of water, yet it may be well to remember that it costs the city about \$6.00 per million gallons to raise water against the pressure required in the city; and am fully of opinion that a liberal supply can be furnished and yet save the city from 15 to 25 per cent. of the cost of pumping. It is argued by some persons that in order to have our beautiful lawns and properly flushed sewers, that it is necessary to run the water through a garden hose with an open butt twenty-four hours per day, and to keep the faucet or valve of the kitcken sink, wash-bowl or closet open at all times. This I do not believe to be a sound argument. It is not necessary, in order to have a beautiful lawn, to flood it with water day and night, and certainly the sewers can be flushed more effectually and more economically by a properly constructed automatic flushing tank than through a kitchen sink.

BRIDGES.

There are now within the city limits spanning the Mississippi river, fifteen bridges. Of these, ten are highway bridges, nine of them built by the city of Minneapolis, one by the counties of Hennepin and Ramsey, which latter has since been transferred to the city of Minneapolis.

Seven of these highway bridges are built of iron or steel, with stone substructures, one stone arch, one wire suspension and one wooden bridge. The

aggregate length of the city bridges is 8,829 feet.

The railroad bridges across the Mississippi river are, one stone arch, two

iron and two wooden bridges.

Contracts have recently been awarded by the city council for the removal of the suspension bridge and the completion of the steel arch bridge. This involves an expenditure of \$80,000. The contracts require the completion of the steel arch bridge July 1st, 1890. This bridge has a width of 80 feet; with a roadway 56 feet wide, and two sidewalks having a width of 12 feet each. The bridge has a length of 530 feet and consists of two spans of 258 feet, center to center, of pins at skew back. Each span has six arches of steel with a rise of 1-10 of the span, or 25.8 feet. The arches have a depth of 60 inches each. In the completion of the remaining one-half of the bridge, iron buckle plates are to be used instead of oak plank, as on the present half. The buckle plates are to be covered with a depth of 6 inches of concrete, upon which is to be placed a cedar block pavement. Recent counts show that there are from 5,000 to 6,000 teams cross the river at this point between the hours of 7 a. m. and 6 p. m.

The total cost of city highway bridges across the river, including the completion of the steel arch bridge, is \$1,305,000. This does not include cost of

maintenance and repairs.

Details concerning the city bridges can be found in a schedule submitted with this report, showing kind and cost of construction of all bridges owned

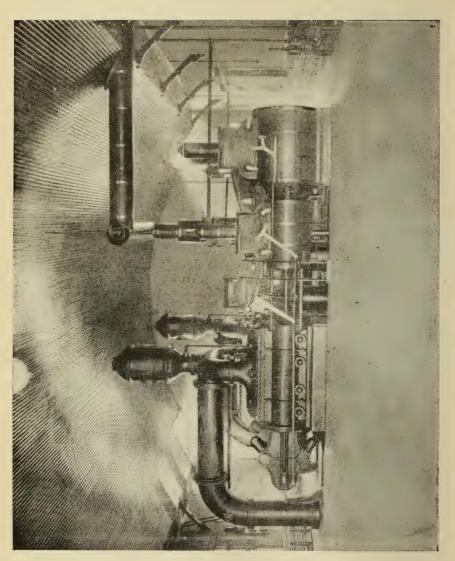
and built by the city.

Considerable work in the way of bridge building is contemplated in the near future. The matter of bridging the Manitoba and M. & St. Louis Railroad Companies' tracks, on Washington avenue and Third, Fourth and Fifth streets, and the work of sinking these tracks which has been before the city council and the courts, will probably be brought to a conclusion during the coming year. While the matter of bridging the Milwaukee & St. Paul tracks on the Hastings & Dakota division will in all probability be settled in the near future. This is a matter which, in my opinion, should be settled by your honorable body as soon as possible, as the proposed lowering of said tracks will necessitate changing the grades of the approaches upon nearly every street or avenue crossing the same, about forty-two in all. And as long as this matter remains in its present unsettled condition abutting property owners are deterred from making improvements that would otherwise be The lowering of these tracks is a matter that would undoubtedly be a great public benefit and also enhance the value of a large amount of private property lying between the tracks and the south limits of the city.

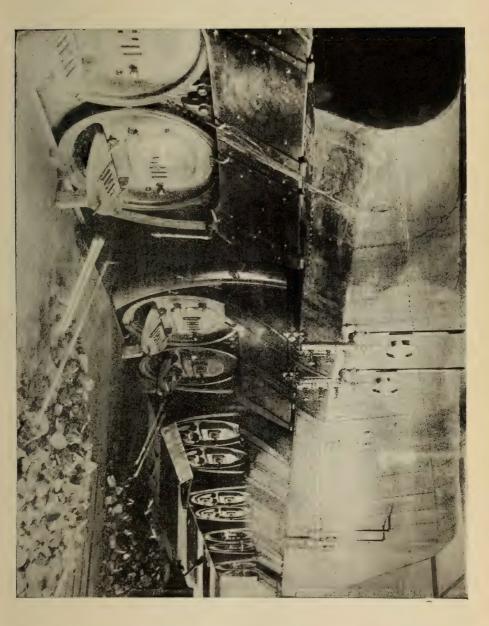
SPECIAL ASSESSMENTS.

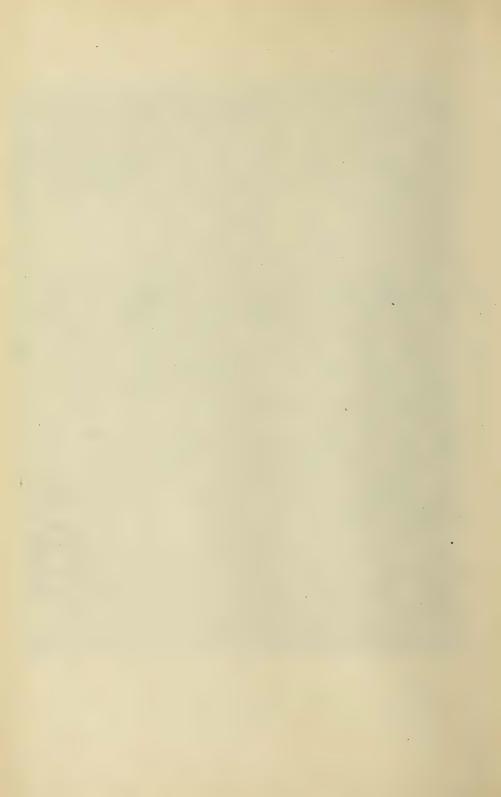
As this is a matter with which the engineering department has much to do in the way of making estimates of cost of improvements to be made, and making and presenting to your honorable body lists of the property against which special assessments are to be levied, together with the cost





Pumping Engines-North Side Station.





of said improvements in front of said property, and the great amount of work required in making out rebates and refunding certificates to property owners where the improvements have been annulledor erroneously made, I would respectfully suggest that such legislation be had at the next meeting of the legislature, whereby the great annoyance due to the present method of collecting special assessments and returning those annulled, can be avoided. It may be well in this connection to consider the plan of the city's collecting its special taxes through the city treasurer's office. While I am not prepared to make any special recommendation in this matter, I am of the opinion that a committee of your honorable body could evolve some more practicable plan than that now in vogue. During the coming year special assessments are levied against property, the total frontage of which has a length of not less than 400 miles, covering more than 40,000 descriptions of property, to say nothing of the property covered by deferred payments on account of carrying the assessments on sewers, paving and curb over a period of five years.

During the past year proceedings have been had condemning certain property and authorizing the city to straighten Bassett's Creek, whereby said creek has not only been straightened through private property, but has been in some cases entirely removed from private property and carried through the streets of the city. On Dupont avenue, where the same flows over and along the line of the main intercepting sewers, arrangements have been made whereby the waters of the creek can, during a large portion of the year, be carried through the intercepting sewer and the North Minneapolis tunnel, into the river below the falls. The straightening of the creek in connection with the intercepting sewer and tunnel will undoubtedly prove a great benefit to property in the valley of the creek, and prevent, to a great extent, the overflowing of lands that have heretofore been rendered practically worth-

less on this account.

Respectfully submitted ANDREW RINKER, City Engineer.

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Conduits Laid previous to January 1, 1890.

Table No. 1.

INVENTORY OF PERMANENT PUBLIC IMPROVEMENTS, JANUARY 1, 1890. CONSTRUCTED BY OR IN CHARGE OF THE CITY ENGINEER'S DEPARTMENT.

						L'ngth miles.	L'ngth feet.	Sq. yds	Costs.
Pavement						24.6		618,139	
Curb and gutter									373,446.4
Sewers and tunnels. Franklin avenue br	idao	von the Mi	aningia	oni nizon		05.4	334,520		2,446.552.1
Washington ave.	iuge o	ver the mi	ssissil	ppi river .					143,430.2 106,367.4
Tenth ave. S.	44	44 44	4.6	66	· · · · · · · · ·				106,000.0
Suspension	64	66 66	6.6	6.6					221,024.5
Hen'pin steel arch	6.6	66 66	6.6						188,161.8
tone arch		st channel	66						50,965.9
Plymouth ave.		ver the							68,500.0
Twentieth ave. N. Hennepin island	" 00	ver the st channel	66						109,110.0
First street N.	" OV	er Bassett'	s Cree	ek .					4,894.1 6,000.0
Second street N	66 6	6 66	6.6						6,922.4
Washington ave. N.	66 6		6.6						6,922.4 8,685.0 10,633.6
Third street N.			44						10,633.6
Fourth street N.			66						8,040.2
Fifth street N. Lyndale avenue			46						1,974.1 6,149.6
Fifth avenue N.		.6 66	64						1,942.0
Sixth avenue N.	46 6		6.6						2,945.
Tenth avenue N.			6.6						6,899.5
Western avenue		0.1 "	6.6						1,980.3
Western avenue). &	66	Near Up	ton av.				1,311.0
Cedar Lake road	" ov	er "	66						9,233.7 224.0
Eighth avenue N. University avenue	66 6	' Univers	it w 66				• • • • • • • • •		1 246 5
Fourth street SE.	66 6	. Chivers	illy						7,309.7
Seventh ave. SE.	66 4		6.						1,246.5 7,309.7 1,370.6
Lyndale avenue	66 6		aha"						1,000.0
инпенана а чение	66 6		66						500.0
Chicago avenue	66 6		44		• • • • • • •				500.0
Lyndale avenue Sixth avenue S.	66 '	Suingle	20.00	1					1,899.2 10,004.5
Washington ave. vis	duct	MIII S CC). s ca	пат					35,902.6
Superior ave. bridge	e, ove	r St. P., M	. & M	Rv. and	M. &				00,000
St. L. Ry., built by	priva	te parties							
first ave. N. bridge	over	St. P., M. 8	т М. R	ly. and M	. & St.				
Washington ave. view Ashington ave. view Superior ave. bridge St. L. Ry., built by First ave. N, bridge. L. Ry., built by rasecond street N. bridst. L. Ry., built by Plymouth ave. viad	ilway	companies	M P- N	A Dw on	a Mr. e-				• • • • • • • • • • • • • • • • • • • •
St. L. Ry built by	uge, or	ver St. P., I	M. & I	a. Ky. and	u m. «				
lymouth ave. viad	uct	ay compan	105.,		,				6,142.0
Royalston ave. brid	ge. ov	er St. P., N	I. &. V	I. Rv. and	M. &				0,22,010
St. L. Ry., built by Vestern ave. bridge	railw	ay compan	nies						
Vestern ave. bridge	, over	St. P., M. &	& М. Е	ky. and M	. & St.				
L. Ry., built by ra yndale ave. bridge	ilway	companies	3.7 T	3 34	0.04				
L. Ry., built by cit	, over	St. P., M. c	ž M. F	ty, and M	. a st.				34,727.5
First street S. bridg	e. ove	r M. & St.	L Rv.	and M. I	C. R.v.				01,121.0
built by railway c	ompar	ies		and M. I	, .,				
built by railway of Iniversity ave. S	E. bri	dge, over	St. P.	, M. & M	I. Ry.,				
built by railway c	ompar	y							
built by railway courth street SE.	bridge	e, over St.	P., M.	& M. Ry.	, built				
by railway compai	ny	dae ever	64 T	M 8- M	T D				
by railway compar fourteenth ave. S built by railway compar	omnar	uge, over	St. r	., M. & M	ı. ny.,				
built by railway countries the street brid	ge. Ov	er St. P. &	N. I	Rv., bu	ilt by				
railway company.									
tata stroot bridge	over S	t. P. & N.	P. Ry	., built by	y rail-				
tate street bridge,									
way company	CO OV	er St. P. &	N. I	. Ry., bu	nt by				
ourth ave. N. brid	80,00								
ourth ave. N. brid railway company.		von St. D	M 8- 7						
ourth ave. N. brid railway company. Cedar Lake road bri	dge, o	ver St. P.,	M. & I	n. Ky., 00	iii by				
ourth ave. N. brid railway company. Cedar Lake road bri	dge, o	ver St. P.,	M. & I	. Rv., bu	ilt by				
way company Fourth ave. N. brid railway company. Cedar Lake road bri railway company. Vestern ave. bridge	dge, o	St. P. M.	. & M	. Rv., bu	ilt by				
way company fourth ave. N. brid railway company. dedar Lake road bri railway company. Vestern ave. bridge railway company. irst street N. brid irst street N. brid	dge, o	er St. P., M	. & M	. Ry., bu	ilt by				
ourth ave. N. brid railway company. Sedar Lake road bri	dge, o	er St. P., M	. & M	. Ry., bu	ilt by				

Table No. 2.

EXPENDITURES FOR PUBLIC IMPROVEMENTS UNDER THE DIRECTION OF THE CITY ENGINEER, JANUARY 1, 1889, TO JANUARY 1, 1890.

Engineers— Pay rolls	\$42,123.76	
Blank books	525.51	
Blank books Instruments and tools (new)	130.52	
Instrument repairs (old)	63.18 57.75	
Livery. Postage.	24.00	
Maps, plats and plat books	128.50	
Stationery and office supplies	272.19 284.66	
Draughtsmen's supplies	204.00	\$43,610.07
CITY HALL—		***************************************
Furniture, repairs, janitor's supplies		1,975.48
Sewerage— Sewers and sewer tunnels and straightening Bassett's creek	503 914 36	
Plumbing inspectors	3,972.96	
_		597,887.32
Ward expense account—Tools, tool boxes and tool repairs		1,848.79
GRADING—		1,010.10
Streets		.7,497.42
SIDEWALKS— Material, labor and repairs		30,693,62
PAVING—		00,000.02
Paving—new (certified bill has been given, payable July 1. 1890,		
for \$10,850.68 of this amount) Paving—repairs	94,988.52 $3,867.32$	
raving-repairs	0,001.02	98,755.84
Culverts-		
Material		465.86
Material		2.847.73
CURB AND GUTTER—		2,011110
Curb and gutter furnished, set and repairs (certified bills given, payable July 1, 1890, for \$19,983.50 of this amount NORTH MINNEAPOLIS PUMPING STATION—		4M 0K0 04
NORTH MINNEADOLIS PHINDING STATION		47,658.04
Material, machinery, tools, etc		65,152.74
RAILROAD CROSSING-		×10.40
Watchman and fuel		548.12
Harrison street and Twenty-fourth avenue northeast		3,010.90
CEMENT TEST ROOM—		
Material and labor		33.75
Electric lights for bridges and streets during the exposition		3,000.00
Electric lights for bridges and streets during the exposition WATERING TROUGHS AND DRINKING FOUNTAINS— Material and labor		
Material and labor		469.31
Descriptions, blanks and filing engineer's certificates		1,722.11
SPRINKLING-		2,100122
Sprinkling steel arch, suspension and stone arch bridges Tank repairs	235.91	
Tank repairs	Ø1.41	257.38
STREET SIGNS—		
PaintingSTREET LIGHTING—		3.50
Moving posts		230.00
CONDUITS—		200100
Paving repairs and material for the Dorset-Edison telephone and fire department conduits (amount to cover above con-		
duits deposited with city treasurer)		4.898.28
duits deposited with city treasurer)		2,200.130
Paying renairs for Street Railway Co. (amount to cover above		1 045 70
repairs for Street Ry Co. deposited with city treasurer) ANNUAL REPORT PUBLICATION—		1,845.79
Photographs of public buildings, etc		11.00
Bridges bridge renains Material tools etc		64 940 09
Bridges, bridge repairs, Material, tools, etc		64,342.93
Material and labor		138.96
		\$978,904,94
		Diffe, 304.94

Table No. 3.

PAVING LAID PREVIOUS TO JANUARY 1890.

All paving is done by contract and all assessable property is assessed for the cost of paving that part of the street on which said property pausing the paving all street intersections and all parts of streets along property exempt from special assessments. The

Contract cost.	8,7,388.88 8,434.53 8,434.53 1,538.67 1,605.31 1
Area paved— Sq. yards.	2,720.65 2,818.41 7,818.41 7,818.41 1,458.00 1,458.00 2,448.30 2,823.10 2,8
Price per cu. y ard extra excavation.	ବ୍ୟକ୍ରଜ୍ୟର୍ଥ୍ରକ୍ରକ୍ୟଥ୍ୟ ସେବ୍ୟ ନ୍ତ୍ରକ୍ରକ୍ଷ୍ଟ୍ରକ୍ର
Contract price per sq. yard.	8
Hate of assess- nient per sq. yard.	ระการและสายการเลยเลยเลยเลยเลยเลยเลยเลย ส
Width of r'd-	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Width paved exclusive of grafter and H. R. tracks.	\$ \$5\$
Pength paved.	701.00 1.460.00 1.460.00 1.460.00 1.470.00 1.480
Year paved.	######################################
KIND.	Granite Granite Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar Cedar Credar Cedar Ced
То-	Railway bridge. Stone arch b dge 5th st. 4th st. 6th st. 6th st. 6th st. 7th st. 8railway bridge. 7th st. 8railway bridge. 8r
STREET. FROM— TO	ity hall st st. uspension by de uspension by de hist. thist. this
STREET.	Bridge Square Bridge Square Bridge St. Contral av Contr

\$3,327.16 4,287.48 1,611.67 3,519.56	28,466.35	1.303.79	11,810.19	2,425.00	#9.96# #9.06#	1.15.58	418.96	426.25	976.40	1 001 68	716.72	704.89	706.93	364.67	205.40	*1 640.1	991.89	779.98	280.68	859.81	1,075.63	789.20	37.496 37.496	80 086 80 086	993.99	*9.261.95	687.09	672.95	734.97	553.20	26.83	1 013.13	orioroir i	743.91	624.38
1,910.20 2,494.93 1,706.67 3,413.00	27,192.85	1,109.50	7,581.37	1,795.11	265.±	735.00	347.41	341.00	382.90	936.00	603.83	625.59	612.97	291.74	20.201	*507.44	864.03	685.56	252.00	718.43	954.34	726.12	133.33	968 96	622.22	207.77	60.1.32	538.36	290.50	112.56	694.39	00860	000000	618.34	956.00
\$.42 .42 .02 .13	.30										9.5			:			98.		.30	.30	.30	.25	.40		500		900	3	:	:	88	30 (.30 €	œ:	.30
\$1.64½ 1.64½ 1.00	.991/2	1.05	1.481/2	1.97	1.641/2	1.09	1.09	1.35	2.52	1.09	1.09	1.09	1.09	1.25		1.09	1.09	1.09	1.09	1.09	1.09	1.06	1.28	1.33	1.4812	.641/2	1.00	1.25	2.53	1.25	30.1	1.09	1.09	1.09	1.09
######################################	1.25	2.75	1.60	1.30	1.75	96	1.25		6.5.4 10.5.4		1.5	1.25	1.25		1.99	9.75	1.25	1.25	1.25	1.25	1.25	1.25	1.30	1.55	1.75	2.75	1.30	Tronc	2.25	1.25	3.5	1.25	1.25	1.25	1.25
52.45 50.00 50.00 50.00	26.96	40.00	64.00	37.00	10.00	20.00	20.00	20.00	20.00	16.00	16.00	16.00	16.00	16.00	90.08	16.00	20.00	30.00	18.88	20.00	1.8	20.00	20.00	90.06	20.00	16.00	16.00	16.00	30.00	18.00	80.08 00.08	20.00	12.25	15.10 (16.00
50.45 48.00 48.00 48.00	38.00	32.40	54.40	36.00	10.00	20.00	20.00	20.00	90.03	16.00	16.00	16.00	16.00	16.00	8.0.8	16.00	20.00	20.00	18.00	20.00	19.00	30.00	99.08	90.08	20.00	16.00	16.00	16.00	20.00	18.00	20.08	20.00	12.35	15.10	12.00
410.00 468.00 330.00 640.00	5,463.9	320.00	00.679.00	371.00	240.00	330.40	330.40	167.00	157.00	330.77	331.00	331.00	341.10	157.50	92.00	00.761	433.00	330.40	37.50	330.40	330.00	330.00	330.00	155.00	280.00	496.00	331.00	282.00	147.00	214.00	30.40	330.40	155.30	00.99	200.00
	50		÷										_		_			_						_	_		_								
1884 1887 1880	1888	1889	~	_		_							_					,	-,-	1880	1889					1884						1889		1889	} 6881
Cedar 1884 Cedar 1884 Cedar 1887 Cedar 1887			~	1885		088	1889	1387	t : 1888		6881	1889	1880	1887		1884	1880	,	-,-				2821	3881	1833	.e 1884		1887	t 1887	1887		1889		~	881
et av Cedar S. Cedar Cedar Cedar Cedar Cedar	1888	reton av. Granite 1883	Cedar 1883 / 4	Cedar 1885	id Cedar 1884	088	Cedar 1889	s Cedar 1887	2882	682	m n ally cedar 1889	1889	on av Cedar 1889	s Cedar 1887	18 Cedar 1882	1884	Cedar 1889	1889	1889	1880	1889	Cedar 1888	Cedar 1885	3881	Cedar 1883	Granite 1884	1888	Cedar 1887	Asphalt 1887	polis Cedar 1887	688		1889	r 1889	881
Ist st. Cedar Nicollet av Cedar Ist av S. Cedar Ist av S. Cedar	2nd av { Cedar 1888	4th st. 1889 E. end city hall Washington av Granite. 1883	Cedar. 1883 4	1st av. S. C'edar 1885	Hoag's add Cedar 1884	ard av. S. Codar. 1889	2nd av. S. Cedar. 1889	Minneapolis ('edar 1887	Minneapolis Asphalt 1888	6 1st ove to make offer Codess	2nd av. V III at y Cedar. 1889	2nd av. S. Cedar 1889	Washington av Cedar 1889	Minneapolis Cedar 1887	Minneapolis Cedar 1882	Minneanolis Granite 1884	2nd av. S. Cedar. 1889	3rd av. S Cedar 1889	rd st.t'w'rd Wash.av Cedar 1889	1880	.b three alleys (cedar 1889	Minneapolis Cedar 1888	Minneapolis Cedar 1885	Minneapolis Cedar 1888	Minneapolis Cedar 1883	Minneapolis Granite 1884	Minneapolis Cedar 1888	Minneapolis Cedar 1887	Minneapolis Asphalt 1887	Minneapolis Cedar 1887	ard av. S. Cedar 1889		Main alley Cedar 1889	S Cedar 1889	

* City furnished blocks.

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Contract cost.	81,080,381,282,823,832,833,833,833,833,833,833,833
Area paved—sq. yards.	8.832.57 9.65.30 10,128.18 10,128.18 11,100.11 11,100.11 11,28.18 11,100.11 11,28.10 11
Price per cu. yard extra excavation.	# 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Contract price per sq. yard.	2.55 1.15 1.15 1.10
Rate of assess- ment per sq. yard.	#25551 # 4444
Width of r'd way.	88888888888888888888888888888888888888
Width paved exclusive of gutter and R. R. tracks.	85388888888888888888888888888888888888
Length paved.	1,568.00 3,280.00 3,280.00 3,280.00 3,560.00 1,560.00 1,100.
Year paved.	**************************************
KIND.	Cedar
To—	St. av. N. to Mn. A Cedar Su av. S. E. Granite Su av. S. E. Granite Su sv. S. E. Gedar 10th st. Cedar
Евом.—	th to 5th st. N. ast end city hall Vashington av Vashington av th st. th st. tiver th st. tiver th st. th s
STREET.	Main st. S. E. (Centra Nicollet av Stante Nicollet av Stante Nicollet av Stante Stante Nicollet av Stante Stan

12.946.25 3.668.87 6.053.10 5.763.10 12,385.95 10,970.58	7,090.41 1,856.81 6,898.76	20,335.37 2,412.99 24,622.87	31,116,26 4,963,99 31,415,96	432, 113, 10 10,058,98 10,058,94 11,766,91 8,775,40 8,861,49	\$887.981.75
11,731.02 2,570.29 5,064.48 3,334.18 10,730.12	3,955.50 1,734.50 6,615.90	19,156.51 2,212.34 26,387.93	14.542.50 3,505.70 31,733.29	11.587.00 3.914.00 2.700.50 5.477.95 9.199.56	618,139,63
<u>श्रं अंशं अंश्रं</u>	.00. .30. .30	8. 8. 8. 8. 8. 8.	0.00	\$ 55.55 \$ 55.5	
· 1.03 2-5 1.104 2-5 1.10 2-8 1.10 8-8 1.08 8-1	1.79 1.07 1.03	1.03 .99½ .93	1.341/4	2.57 2.57 2.40 2.09 91.09	
***************************************	2.20 1.25 1.25	1.25	1.30	555555 555555 555555 55555 55555 55555 5555	
0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05	36.00 30.00 30.00 30.00 30.00 30.00 30.00	40.00	\$3.85 \$3.85	298888888 88888888	
%%%%%% %%%%%% %%%%%% %%%%% %%%% %%% %%	48.84.88.89 50.00.00.00.00.00.00.00.00.00.00.00.00.0	000000000000000000000000000000000000000	28.55 26.55		
2,386.21 411.00 820.00 605.00 2,050.00 1,670.00 320.00	320.00	4,492.00 600.00 5,602.00	1,230.00	1,581.00 3,056.00 820.00 1,428.00 2,100.00	130.017.93
878 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	888 888 888 888 888 888 888 888 888 88	28 28 28 28 28 28 28 28 28 28 28 28 28 2	1882 1885 1889	1882 1882 1885 1886 1886 1886 1886	
Cedar Cedar Cedar Cedar Cedar Cedar	Granite Cedar	Cedar Cedar Cedar Cedar	Cedar	Cedar Granite Granite Granite Cedar	Totals
	a V.	V	2d av. 3d av. 18th av.	3d av. 8th av. 8th av. 0th av. 12th av. Cedar av.	
Infreesity av. stav. stav. stav. thav. thav.	R. bridge. d st. Vashington av. niversity av. Iennepin av.		epin av	Hennepin av. 3d av. 8th av. 6th av. 10th av. 12th av. 1st av. 1st av. N.	
S S S S S S S S S S S S S S S S S S S	10th av. S. 10th av. S. 10th av. S. E. 10th av. S. E. 10th st.	10th st. 10th st. 12th st. Univ'rsity av. S.E. Univ'rsity av. S.E.	Washington av. N. Henn Washington av. N. 2d av. Washington av. N. 5th av	Washington av.S. Washington av.S. Washington av.S. Washington av.S. Washington av.S. Washington av.S.	

Summary of Table No. 3.

	\$581.562.75 304.708.00 1.711.00	\$887.981.75
	497.231.63 120.235.00 673.00	618.139.63
	107,732.93 21.981.00 304.00	130,017.93
ı		
	(20.404 miles) (4.163 miles) (0.057 miles)	(24.624 miles)

*Included in third line above. *City furnished blocks.

Table No. 4.

All paving is done by contract, and all assessable property is assessed for the cost of paving that part of the street on which said property abuts. The general city pays for paving all street intersections and all parts of streets along property exempt from special assessments. The

		CONTRACTOR.	1	J. B. Smith & Co. Wm. Hendricks. T. J. Canney.	J. B. Smith & Co.							E	D. A. Thatcher.								Wm. Hendricks.	Jas. Forestal.	J. B. Smith & Co.
	.tsoO		\$3.180.18 2,566.06 1.972.67	3,519.56	837.08 1,115.58		1,001.63			779.98	280.68	829.81	1,075.63	687.92	756.80	1,013.13	743.91	624.38	1,080.95	15.444.08	5,763.68	10.970.58	
	Number of square,			3,073. 2,497.34 1,810.03	3,413.	762.42	347.41 536.	870.78 603.83	625.59	320.67	685.56	252.	718.43	954.34	604.41	694.32	928.	618.34	556.	954.14	15,634.	5,528.56	10,785.
-		1950 1951 1951	Total le paved	685.60 420. 333.30	320.	330.40	330.40 330.77	498.03 331.	331.	157.	330.40) 104. , 34.24 (330.40	2000 2000 2000 2000 2000 2000 2000 200	341.76	330.40	155.30	∫ 264. ∠ 66. ∽	2864.	499.92	356.	1,220.	330.
	NTRACT PRICE.	y'rd per y'rd	Extra e vat'n eubie	25.05.25								.30 0e-	900	.30	8	9	9,8	08:	.30	8		35.2	234
	CONTRACT PRICE.	этв	Per squ	1.02	1.00	9.1 9.8 9.8	88.	1.00	9.5	989	1.09	1.09	1.09	1.09	1.09	1.00	1.09	1.09	1.09	1.09	8,8,	9.38 8.38	86
	.b	ssses —per e yar	Rate of ment- squar	8.8.8	2.3	1.33	3.53	25.25	1.25	1.55	1.25	1.25	1.25	1.25	1.3	1.35		1.25	1.25	1.25		1.25	1.25
	-p1		Width o	35 05 05 36 05 05	.0 . 04	<u>વ</u> ્ચં	26. 16.	16.	16.	18.8	383	niœ	30;	12.	16.		12.25	16. 15.10	.61 .63	.91 .93		3 .8	50.
	£	рачес	Width teet.	46.40 50.40 48.40	& %;	% % %	20. 16.	16.	16.	388	383	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	, S	4:03	16.		12.25) 16. (15.10	15.	, Te		‰ 4 ∞, ∞	
			Kind.	Ced'r	::	:::	: :	::	::	::	3,	,	;	;	3 3	: :	: ;	;	:	: :	:	3 3	:
tallments.	Section of the sectio	Т0		7th st. 4th st. 1st av			2nd av. S	1st av.N.to m.al'y 2nd av. N.	2nd av. S	Main alley	3rd av. S	toward Wash. av.	4th av. S	3 alleys	4th st. N.	ard av. S.	Main alley	5th av. S	av. to alley a nd alley to 4th st.	1st av.N.to m.al'y	Lyndale av.	10th st	11th av.
paving tax is paid in five yearly installments.		FROM-		6th st 3rd st Hennepin av	1st av. 4th av.	1stav.N.tomaina 2nd av. S	1st av. S.	st.and	1st av. S.	1st av. S.	2nd av. S.	(Bovey sub.)3rdst. toward Wash. av.	3rd av. S	(Noble's sub.) a alleys	3rd st. N.	2nd av. S.	av. S	tth av. S	Nic. av. to alley a	4th to5th st.N.and 1st av.N.to m.al'y	6th st.	7th st.	10th av
paving tax is paid		STREET.		Central avenue. 1st avenue N.	5th street N 1st av. 14th avenue SE. 4th av.	Alley blk.12 Mpls.	:: 85	:: 83	; ;	::	40	., 48 ,, ,,	., 6f ., ,,	,, 02 ,, ,,	;; F9 ;; ;;	: :	: :	29	,, 18 ,, ,,	10 cm 60 m	Plymouth ave	6th avenue S	3rd street S

30.	vî.			2.6637	4 1430
J. B. Smith & C	63.50 1.25 .99 4,930.30 31,733.29 31,415.96 Wm. Hendricks.			Streets, miles, 2.6637 Alleys, miles, 1.4802	21.880.12 90.993.64 94.988.52 Total miles. 4 1439
\$1,856.81	31,415.96	1.214.78	94,988.52	78,965.20 16,023.32	94.988.52
1,734.50	31,733.29		21,880.12 90,993.64 94,988.52	7,815.42 13,675.42 78,965.20 7,815.42 16,023.32	90.993.64
320.	4,930.30		21,880.12	14,064.70 7,815.42	21.880.12
.001/2					
1.07	66:				
1.00	1.25			::	
48.40	25.58.58 5.69.57 5.69.54				
3	;	:			
st	18th av				
3rd	18th	:	_	::	
Washington av 3rd st	5th av				
10th avenue S	Washington av.N 5th	Incidentals		Streets	

Table No. 5.
PAVING TO BE DONE DURING THE YEAR 1890.

				0.0	.l.	. —;		-:	·			.69
		CONTRACTOR.		641.59 J. B. Smith & Co. 3,573.78 J. B. Smith & Co.	1,493.25 James Forresta	,961.00 James Forresta	855.29 J. B. Smith & Co.	4,163.68 James Forrestal	1.167.59 J. B. Smith & Co.	5,249,92 James E. Snyder.	237.59 Wm. Hendricks.	26,593.91 Total miles, 4.3869.
		- 		9 J. B. S.	James Wm.	James Not let	9 J. B. S	James	Thos.	James	Wm. I	Total
		ortion	City's I				:		:		237.59	1 1
	·t.	soo pət	Estima	2,331.36	7.188.61	11,773.26	8,704.63	12,023.19			5.805.56	118,012.50
	yds.	.ps bət	Estima	2,210.82	9,186,49	11,212.63	8,290.12	11,450.66	3,441.55	18,138.49	5.864.20 17,084.22	23,163 112,247.01 118,012.50
TOOO!		, feet.	Length	3,280	2,152	1,748	2,019	2,713	877.4 877.6 87.0 87.0 87.0 87.0 87.0 87.0 87.0 87.0	3,093	3,848	23,163
	JONTRACT PRICE.	xeava-	Extra e	.12	3,8		12.		₹: :			
	CONT	.Suivs	g.by.ps	1.02 .92			66	.93	1.05 1.01 1.2 1.05 1.86 1.2 1.05 1.86 1.2 1.05 1.89 1.2 1.05 1.89 1.2 1.05 1.89 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	78.	66.78.	
TOTAL	sment rard.	d asses	Rate o	1.05	5.5	1.05	1.05	1.05		1.05	1.25	
	dway,	of roa	Мідть							323		
700 70	paved,	to be l	Width	40.40	4.8 6.8	15 × 2	<u>~</u>	9.75 2.75 2.75 2.75	468 468	56.40 56.40	59.40 59.40 32.74	
THE LEAD BOWE BOWING THE LEAD 1880			Kind.	Cedar	::	av. Asphalt	Cedar	3 :	: : :	:	::	
		T0—		6th st Franklin av	6th av Western av		3rd av. S	Humboldt av	Ust av. N Washington av 8th st	Bryant av	bridge near 12th st. Irving av.	Total
		EROM—		5th st	Nicollet av	Central av	Hennepin av	Lyndale av	Hennepin av Ist st.		idge near	
		STREET.		Cedar av. 5th st	11th st. S. 1st av. N.	Main st. NE Central av	9th st. 8	6th av. N.	oth st. N 10th av. N 10th av. SE	20th av N 2nd st	Washington av.N 18th av Western av R. R. b	

Table No. 6.
CURB AND GUTTER STONE SET PREVIOUS TO JANUARY 1, 1890.

Street					1			
Bank st. Pierce st. Ortman st.					b += 1	ون ا	ا ن	·
Bank st. Pierce st. Ortman st.					a u	ic	4	12
Bank st. Pierce st. Ortman st.	~		m .	771 3	f g	5 5		12.
Bank st.	STREET.	FROM-	To-	Kind.	Sr	22	2	
Bank st.					e s	- 등	60	r r r r
Bank st.					at	ä	E I	Se Se
Bankst					8	5	3	5 5
Bridge square 1st st St Chinon Ry Dr								
Bridge square 1st st St Chinon Ry Dr	Bank st	Pierce st	Ortman st	Kettle River.	1.00	8.971/6	616 80	\$601 38 1888
Bridge square. Ist st.	Rankst	Ortman st	University av				356 90	354 00 1887
Bridge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Arch br Reidge square. 1st st. Suspension br Store Rei	Bridge square.	1st st	Union Ry, br.	6.	1 40	1 35	407 25	671 98 1884
Cedar av	Bridge square	1st st	Eendcityhall	Limestone	1 70	1 70	262 00	617 10 1999
Cedar av	Pridge square.	Sugnangian hr	Stone Arch br	Limestone	1 70	1.70		1 000 01 1000
Central av. Stone Arch or 4th st	Codor or	Wook ox	6th et	Lottle Diron	1.10	071/		1,880.91 188%
Central av. Stone Arch or 4th st	Codemary	Cth at C	7th at 8	Kettle Kiver.	1.10	1 10	0,344.00	0,200.89 1881
Central av. Stone Arch or 4th st	Cedar av	W array Coder	W are a Coden		1.10	1.10	671.50	738.65 1889
Central av. 6th 8t. 6th 8t. 6th 8t. 6th 8th 8th 8th 8th 8th 8th 8th 8th 8th 8	Cedar av	w.av.w Cedar	w.av.e Cedar				129.20	125.97 1888
Central av. 6th 8t. 6th 8t. 6th 8t. 6th 8th 8th 8th 8th 8th 8th 8th 8th 8th 8	Central av	Stone Arch or	4th st	Limestone	1.70	1.70		3,991.60 1883
Sth av S. Wash, av 3d St. Hennepin av Nicollet av Sth av S. Wash, av 3d St. Hennepin av Nicollet av Store Sth st. Hennepin av Nicollet av Store Sth st. Accollet av St. Hennepin av Store Sth st. Accollet av St. Hennepin av Store Sth st. Accollet av St. Hennepin av Store Sth st. Accollet av St. Hith av S. Sth st S. 10th av S. Hith av S. 11th av S. 13th	Central av	4th st	6th st		1.15	1.14	1,524.40	1,737.82 1886
Sth av S. Wash, av 3d St. Hennepin av Nicollet av Sth av S. Wash, av 3d St. Hennepin av Nicollet av Store Sth st. Hennepin av Nicollet av Store Sth st. Accollet av St. Hennepin av Store Sth st. Accollet av St. Hennepin av Store Sth st. Accollet av St. Hennepin av Store Sth st. Accollet av St. Hith av S. Sth st S. 10th av S. Hith av S. 11th av S. 13th	Central av	6th st	8th st	Kettle River.	1.00	$.97\frac{1}{2}$	1,479.20	1,487.51 1888
Sth av S. Wash, av 3d St. Hennepin av Nicollet av Sth av S. Wash, av 3d St. Hennepin av Nicollet av Store Sth st. Hennepin av Nicollet av Store Sth st. Accollet av St. Hennepin av Store Sth st. Accollet av St. Hennepin av Store Sth st. Accollet av St. Hennepin av Store Sth st. Accollet av St. Hith av S. Sth st S. 10th av S. Hith av S. 11th av S. 13th	Central av	8th st	9th st	**	1.10	1.10	320.10	352.11 1889
St av N	Clinton av	12th st	Franklin av	66	1.10	1.10	5,068,70	5,575.57 1888
St av N	8th av. S	Wash. av	3d st	Limestone	1.30	1.26	800.00	1,008.00 1886
St av N	8th st	Hennepin av.	Nicollet av	66	1.15	1.14		1.747.62 1886
St av N	8th st	Nicollet av	3d av. S	17 - 441 - Di	1 00	1,001/		
St av N	8th st	4th av. S	11th av. S	Kettle River.	1.00	.91/2	7,047.00	7,018.94 1888
St av N	8th st S	10th av	11th av	66	1.10	1.10	169.30	186 23 1889
St av N	8th st	3d av. S	4th av. S.	66	1 00	971/		
St av N	8th st	11th av. S.	13th av. S.	16	1 10	1 10	1 573 70	1 731 07 1888
St av N	11th av S	8th st	Franklingy	66	1 10	1 10	4 861 00	5 348 90 1899
St av N	1ct ov N	1ct of	P P bridge	66	1 10	1 10	977 60	205 26 1000
St av N	1et ov N	10t ot	2d et	Limostono	1.30	1 96	804 90	974 60 1995
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.420.67 1886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 97½ 4.419.90 4,527.19 1887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4,527.19 1887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 1.022.90 12.015.19 1888 5th st. Hennepin av. Ist av. N. " 1.30 1.35 1,743.00 2,353.05 1884 5th st. S. Nicollet av. 1st av. N. E. " 1.40 1.35 660.00 891.00 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.0 70.72 2.32.90 1,240.99 1888 5th st. N. E. 2d av. 4th av. Artificial. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.31 1888 14th av. S. E. 4th st. 5th st. Artificial. 1.10 1.10 10,355.50 <td< td=""><td>1st av. N</td><td>2d of</td><td>2d st</td><td>Limestone</td><td>1 10</td><td>1.20</td><td>1 000 (4</td><td>1 7759 10 1004</td></td<>	1st av. N	2d of	2d st	Limestone	1 10	1.20	1 000 (4	1 7759 10 1004
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.420.67 1886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 97½ 4.419.90 4,527.19 1887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4,527.19 1887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 1.022.90 12.015.19 1888 5th st. Hennepin av. Ist av. N. " 1.30 1.35 1,743.00 2,353.05 1884 5th st. S. Nicollet av. 1st av. N. E. " 1.40 1.35 660.00 891.00 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.0 70.72 2.32.90 1,240.99 1888 5th st. N. E. 2d av. 4th av. Artificial. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.31 1888 14th av. S. E. 4th st. 5th st. Artificial. 1.10 1.10 10,355.50 <td< td=""><td>1st av. N</td><td>2d St</td><td>Atla at</td><td></td><td>1.40</td><td>1.00</td><td>1,298.04</td><td>1,705.10 1884</td></td<>	1st av. N	2d St	Atla at		1.40	1.00	1,298.04	1,705.10 1884
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.420.67 1886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 97½ 4.419.90 4,527.19 1887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4,527.19 1887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 1.022.90 12.015.19 1888 5th st. Hennepin av. Ist av. N. " 1.30 1.35 1,743.00 2,353.05 1884 5th st. S. Nicollet av. 1st av. N. E. " 1.40 1.35 660.00 891.00 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.0 70.72 2.32.90 1,240.99 1888 5th st. N. E. 2d av. 4th av. Artificial. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.31 1888 14th av. S. E. 4th st. 5th st. Artificial. 1.10 1.10 10,355.50 <td< td=""><td>Ist av. N</td><td>50 St</td><td>4th St</td><td></td><td>1.50</td><td>1.20</td><td>740.00</td><td>959.45 1885</td></td<>	Ist av. N	50 St	4th St		1.50	1.20	740.00	959.45 1885
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.420.67 1886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 97½ 4.419.90 4,527.19 1887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4,527.19 1887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 1.022.90 12.015.19 1888 5th st. Hennepin av. Ist av. N. " 1.30 1.35 1,743.00 2,353.05 1884 5th st. S. Nicollet av. 1st av. N. E. " 1.40 1.35 660.00 891.00 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.0 70.72 2.32.90 1,240.99 1888 5th st. N. E. 2d av. 4th av. Artificial. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.31 1888 14th av. S. E. 4th st. 5th st. Artificial. 1.10 1.10 10,355.50 <td< td=""><td>Ist av. S</td><td>1st st</td><td>30 St</td><td></td><td>1.40</td><td>1.33</td><td>2,000.00</td><td>2,700.00 1884</td></td<>	Ist av. S	1st st	30 St		1.40	1.33	2,000.00	2,700.00 1884
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.420.67 1886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 97½ 4.419.90 4,527.19 1887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4,527.19 1887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 1.022.90 12.015.19 1888 5th st. Hennepin av. Ist av. N. " 1.30 1.35 1,743.00 2,353.05 1884 5th st. S. Nicollet av. 1st av. N. E. " 1.40 1.35 660.00 891.00 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.0 70.72 2.32.90 1,240.99 1888 5th st. N. E. 2d av. 4th av. Artificial. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.31 1888 14th av. S. E. 4th st. 5th st. Artificial. 1.10 1.10 10,355.50 <td< td=""><td>1st av. 8</td><td>30 St</td><td>6th st</td><td>**</td><td>1.15</td><td>1.14</td><td></td><td>2,093.61 1886</td></td<>	1st av. 8	30 St	6th st	**	1.15	1.14		2,093.61 1886
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.420.67 1886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 97½ 4.419.90 4,527.19 1887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4,527.19 1887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 1.022.90 12.015.19 1888 5th st. Hennepin av. Ist av. N. " 1.30 1.35 1,743.00 2,353.05 1884 5th st. S. Nicollet av. 1st av. N. E. " 1.40 1.35 660.00 891.00 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.0 70.72 2.32.90 1,240.99 1888 5th st. N. E. 2d av. 4th av. Artificial. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.31 1888 14th av. S. E. 4th st. 5th st. Artificial. 1.10 1.10 10,355.50 <td< td=""><td>1st av. S</td><td>6th st</td><td>8th st</td><td>**</td><td>1.15</td><td>1.14</td><td></td><td>1.728 01 1886</td></td<>	1st av. S	6th st	8th st	**	1.15	1.14		1.728 01 1886
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.420.67 1886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 97½ 4.419.90 4,527.19 1887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4,527.19 1887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 1.022.90 12.015.19 1888 5th st. Hennepin av. Ist av. N. " 1.30 1.35 1,743.00 2,353.05 1884 5th st. S. Nicollet av. 1st av. N. E. " 1.40 1.35 660.00 891.00 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.0 70.72 2.32.90 1,240.99 1888 5th st. N. E. 2d av. 4th av. Artificial. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.31 1888 14th av. S. E. 4th st. 5th st. Artificial. 1.10 1.10 10,355.50 <td< td=""><td>1st st</td><td>1st av. N</td><td>3d av. N</td><td></td><td>1.30</td><td>1.35</td><td>1,500.00</td><td>2,025.00 1884</td></td<>	1st st	1st av. N	3d av. N		1.30	1.35	1,500.00	2,025.00 1884
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.420.67 1886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 97½ 4.419.90 4,527.19 1887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4,527.19 1887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 1.022.90 12.015.19 1888 5th st. Hennepin av. Ist av. N. " 1.30 1.35 1,743.00 2,353.05 1884 5th st. S. Nicollet av. 1st av. N. E. " 1.40 1.35 660.00 891.00 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.0 70.72 2.32.90 1,240.99 1888 5th st. N. E. 2d av. 4th av. Artificial. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.31 1888 14th av. S. E. 4th st. 5th st. Artificial. 1.10 1.10 10,355.50 <td< td=""><td>1st st. N</td><td>9th av</td><td>10th av</td><td>Kettle River.</td><td> 1.10 </td><td>1.10</td><td>60.80</td><td>66.88 1889</td></td<>	1st st. N	9th av	10th av	Kettle River.	1.10	1.10	60.80	66.88 1889
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.420.67 1886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 97½ 4.419.90 4,527.19 1887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4,527.19 1887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 1.022.90 12.015.19 1888 5th st. Hennepin av. Ist av. N. " 1.30 1.35 1,743.00 2,353.05 1884 5th st. S. Nicollet av. 1st av. N. E. " 1.40 1.35 660.00 891.00 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.0 70.72 2.32.90 1,240.99 1888 5th st. N. E. 2d av. 4th av. Artificial. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.31 1888 14th av. S. E. 4th st. 5th st. Artificial. 1.10 1.10 10,355.50 <td< td=""><td>1st st</td><td>1st av. N</td><td>5th av. S</td><td>Limestone</td><td> 1.40 </td><td>1.85</td><td>4,566.00</td><td>6,164.10 1884</td></td<>	1st st	1st av. N	5th av. S	Limestone	1.40	1.85	4,566.00	6,164.10 1884
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.420.67 1886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 97½ 4.419.90 4,527.19 1887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4,527.19 1887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 1.022.90 12.015.19 1888 5th st. Hennepin av. Ist av. N. " 1.30 1.35 1,743.00 2,353.05 1884 5th st. S. Nicollet av. 1st av. N. E. " 1.40 1.35 660.00 891.00 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.0 70.72 2.32.90 1,240.99 1888 5th st. N. E. 2d av. 4th av. Artificial. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.31 1888 14th av. S. E. 4th st. 5th st. Artificial. 1.10 1.10 10,355.50 <td< td=""><td>1st st</td><td>5th av. S</td><td>Canal</td><td>66</td><td>1.30</td><td>1.35</td><td>249.80</td><td>337 23 1884</td></td<>	1st st	5th av. S	Canal	66	1.30	1.35	249.80	337 23 1884
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.420.67 1886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 97½ 4.419.90 4,527.19 1887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4,527.19 1887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 1.022.90 12.015.19 1888 5th st. Hennepin av. Ist av. N. " 1.30 1.35 1,743.00 2,353.05 1884 5th st. S. Nicollet av. 1st av. N. E. " 1.40 1.35 660.00 891.00 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.0 70.72 2.32.90 1,234.99 1888 5th st. N. E. 2d av. 4th av. Artificial. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.31 1888 14th av. S. E. 4th st. 5th st. Artificial. 1.10 1.10 10,355.50 <td< td=""><td>1st av. S. E</td><td>Main st</td><td>5th st</td><td>Kettle River.</td><td>1.00</td><td>.971/2</td><td>2,547.80</td><td>2,516.44 1888</td></td<>	1st av. S. E	Main st	5th st	Kettle River.	1.00	.971/2	2,547.80	2,516.44 1888
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.429.671886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 .97½ 4.419.90 4.527.191887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4.527.191887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 612.60 698.361886 5th st. Hennepin av. Ist av. N. " 1.401.35 660.00 891.001884 5th st. S. Nicollet av. 1st av. N. E. " 1.401.00 1.743.00 2,353.05 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.074 1,232.30 1,249.091888 5th st. N. E. 2d av. 4th av. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.311888	4th av. S	Wash, av	4th st	Limestone	1.30	1.26	1.550.00	2.173.00 1885
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.429.671886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 .97½ 4.419.90 4.527.191887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4.527.191887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 612.60 698.361886 5th st. Hennepin av. Ist av. N. " 1.401.35 660.00 891.001884 5th st. S. Nicollet av. 1st av. N. E. " 1.401.00 1.743.00 2,353.05 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.074 1,232.30 1,249.091888 5th st. N. E. 2d av. 4th av. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.311888	4th st. N	Hennepin av.	3d av. N	Kettle River	1.001	971/2	1 814 30	1.809 06 1887
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.429.671886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 .97½ 4.419.90 4.527.191887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4.527.191887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 612.60 698.361886 5th st. Hennepin av. Ist av. N. " 1.401.35 660.00 891.001884 5th st. S. Nicollet av. 1st av. N. E. " 1.401.00 1.743.00 2,353.05 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.074 1,232.30 1,249.091888 5th st. N. E. 2d av. 4th av. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.311888	4th st. N	Hennenin av.	1st av. N	**	1.00	971/2	96.30	93 80 1888
4th st. S. 2d av. 8th av. " 1.15 1.14 1.246.20 1.429.671886 4th st. N. E. Central av. 6th av. Kettle River. 1.00 .97½ 4.419.90 4.527.191887 4th st. N. E. Central av. 14th av. Limestone 1.15 1.14 4.479.90 4.527.191887 5th st. S. Wash. av. 3d st. Limestone 1.15 1.14 612.60 698.361886 5th st. Hennepin av. Ist av. N. " 1.401.35 660.00 891.001884 5th st. S. Nicollet av. 1st av. N. E. " 1.401.00 1.743.00 2,353.05 1884 5th st. N. E. 2d av. 4th av. Kettle River. 1.00 1.074 1,232.30 1,249.091888 5th st. N. E. 2d av. 4th av. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. 4th av. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 735.50 809.05 1888 5th st. N. E. 2d av. Wash.st. Kettle River. 1.10 1.10 10.362.10 11,308.311888	4th st. S.	Hennenin av.	Nicollet av	Limestone	1.40	1.35	747 00	1.008 45 1884
4th st. N. E. Central av. 14th av. Kettle River. 1.00. 97½ 44th 9.90. 4,527.19.1887 5th av. S. Wash. av. 3d st. Limestone. 1.15.1.14 10,922.90. 12,015.19.1888 5th st. Hennepin av. Ist av. N. "	4th st. S.	Nicollet av	2d av.	"	1 15	1 14	1 246 20	1 420 67 1886
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4th st S	2d av	8th av	4.6	1 15	1 14	1 457 50	5 081 55 1886
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4th et N E	Cantralay	6th av	Kottle River	1 00	071/	1.110.00	4 597 10 1887
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4th st S E	Control ov	14th ov	rettie miver.	1 10	1 00	10.000.00	19 015 10 1999
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5th or C	Work or	2d of	Limontono	1 15	1 11	210,922,90	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5th av. S	Wash, av	Just or N	Limestone	1.10	1 95	012.00	090.30 1000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	oth St	Hennepin av.	Nicellet or	**	1.50	1.00 /	1.743.00	2,353.05 1884
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	oth St	Hennepin av.	Nicomet av		1.40	1.00)		004 00 1004
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	otn st. S	Nicomet av	ist av	77 113 D	1 00	1.30	660.00	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5th St. S	1st av	30 av	Kettle River.	1.00	.91/2	1,223.20	1,240.99 1888
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	oth st. N. E	Central av	ist av. N. E	1 110 1 1	1.10	1.10	360.50	390.55 1888
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	oth st. N. E	2d av	4th av	Artificial	1.10	1.10	735.50	809.05 1888
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5th st. N. E	2d av	Wash. st	Kettle River.	1.10	1.10	735.50	809.05 1889
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5th st. S. E	Central av	14th av		1.10	1.10	10.362.10	11,398.31 1888
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	14th st	Chicago av	11th av. S		1.10	1.10	1,971.80	1,955.79 1888
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	14th av. S. E	4th st	5th st	Artificial	1.10	1.10	660.00	726.00 1888
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Harmon place.	10th st	11th st	Kettle River.	1.10	1.10	488.10	536,91 1888
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Hennepin av	E.endcityhall	4th st	Limestone	1.70	1.70	2,555.25	4,343.92 1883
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Hennepin av	4th st	9th st	66	1.40	1.35	4,123,40	5,566.59 1884
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$							3,783.58	5,107.83 1884
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Hennepin av	Spruce place.	Oak Grove st.	Kettle River.	1.00	.971/2	4,119,40	4,026.00 1888
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	High st	Bridge square	1st av. S	Limestone	1.30	1.26	363.00	457.38 1885
Main st. Central av. 2d av. S. E. Kettle River. 1.00 97½ 2,323.70 3,511.90 83,71888 Marshall st. 5th av. N. E. 8th av. N. E. " 1.00 97½ 2,323.70 2,298.57,1888 Nicollet av. E. endcityhall 5th st. Limestone 1.70 1.70 2,76.00 5,569.20 883 Nicollet av. 5th st. 9th st. 1.40 1.35 2,400.00 3,024.00 885 Nicollet av. 12th st. 13th st. Franklin av. 1.30 1.26 2,400.00 3,024.00 885 Nicollet av. 13th st. Franklin av. 1.10 1.7	Highland av	Royalton av.	Lyndale av	Granolithic.	11.10	. 90	3,262,60	2,936,34 1889
Nicollet av 9th st. 12th st. 13th st. 1.30 1.26 2.400 00 3.032 00 1885 0.000	Main st	Central av	6th av. N. E	Kettle River	1.00	.971/2	3 254 (N)	3.611.96 1887
Nicollet av 9th st. 12th st. 13th st. 1.30 1.26 2.400 00 3.032 00 1885 0.000	Main st	Central av.	2d av. S. E	"	1.00	971/2	2.819.80	2,755,33 1887
Nicollet av 9th st. 12th st. 13th st. 1.30 1.26 2.400 00 3.032 00 1885 0.000	Marshall st	5th av. N. E	8th av. N. E.	66			2,323 70	2,298,57,1888
Nicollet av 9th st. 12th st. 13th st. 1.30 1.26 2.400 00 3.032 00 1885 0.000	Nicollet av	E.endcityhall	5th st.	Limestone	1.70	1.70	3.276.00	5,569, 20 1883
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Nicollet av	5th st	9th st	"				4.093 20 1884
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Nicollet av	Oth st	119th st	66	1 30	1 26	2 400 00	3 024 00 1885
Nicollet av 13th st. Franklin av Kettle River 1.00 97½ 5.877.30 5.812.35 1889 1881 1889 1881 18	Nicollet av	19th et	13th et	- 66	1 15	1 14	712 10	812 03 1885
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Nicollet av	19th et	Franklin or	Kottle Diver	1.00	071/	5 977 90	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Oth of S	Hopporin	Nicollet av	Rettie River.	1.00	.91/2	0,677.30	
9th st. S. Nicollet av 6th av 1.00 .97½ 6,110.20 6,185 86 1887 9th st. S. 7th av S. 9th av 1.00 .97½ 6,110.20 6,185 86 1887 Oak Grove st. Clifton place. Spruce place. "1.00 .97½ 1,981.90 1,932.35 1888 Ortman st. Central av Bank st. "1.00 .97½ 669.80 591.63 1887 Ortman st Bank st. st av S. E. "1.00 .97½ 615.30 606.91 1888 Park av 10th st. 25th st. "1.00 .97½ 8,421.70 8,492.83 1888	Oth at S	gth or	"th or	66	1.00	.971/2	1,761.30	1,749.53 1888
9th st. S. Ntcollet av. 6th av. 1.00 .97½ 6,110.20 6,185 86 1887 Oak Grove st. Clifton place Spruce place. 1.00 .97½ 1,981.90 1,932.35 1888 Ortman st. Central av. Bank st. 1.00 .97½ 60.80 591.63 1887 Ortman st. Bank st. 1.00 .97½ 61.530 60.91 1888 Park av. 10th st. .25th st. 1.00 .97½ 8,421.70 8,492.83 1888	Oth at S	Nicellatan	Cth av					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	9th St. S	Niconet av	oth av	4.6	1.00	.971/2	6,110.20	6,185 86 1887
	9th St. S	7th av. S	gtn av	14	1 00	027	1 001 00	
Ortman st. Bank st. " 1.00 97/2 600.80 591.63 1887 Ortman st. Bank st. " 1.00 97/2 615.30 66.91 1888 Park av. 10th st. 25th st. " 1.00 97/2 8,421.70 8,492.83 1888	Oak Grove st	Chitton place.	spruce place.		1.00	.971/2	1,981.90	
Park av 10th st 25th st	Ortman st	Central av	Bank st		1.00	.961/2	000.80	991.03 1887
Park av 10th st	Ortman st	Bank st	ist av. S. E					000.91 1888
	Park av	10th st	125th st		1.00	.971/2	8,421.70	8,492.83 1888

Table No. 6-Continued.

STREET.	From-	то—	Kind.	Rate of ass'm't.	Contr'et price.	Length —ft.	Cost.	Yr. work done.			
Parks in Oak Plymouth av Plymouth av	Lake addit'n.		*Granolithic		90	696.40	696.76	1000			
Plymouth av	6th st	Bridge	Limestone	1:15	1.14	5,005.10	626.76 5,705.81 692.56	1889			
Plymouth av	6th st	Lyndale av	Kettle River.	1.10	1.10	629.60	692.56	1889			
Prince st	Central av	Bank st	170 a a a a	1.00	.971/2	629.60 853.30	831.96 11,971.50	1888			
Portland av	Grant st	Lake st	P.Com.C.&G.	.76	.75	15,962.00	11,971.50	1889			
Rollins St	R R bridge	6th av. N. E	Granolithic	1.00	.97/2	1,134.40	1,179.61	1888			
2d av N	1st st	2d st	Kettle River.	1.10	1.35	4,046.20 716.00	3,641.58 966.60	1889			
2d av. N	2d st	3d st	Limestone	1.40	1.35	1,298.64	1,753.16	1884			
2d av. S	1st st	4th st	46	1.40	1.35	2,684.00	1,753.16 3,623.40 11,151.00	1884			
2d av. S	4th st	13th st	66	1.30	1.26	8,850.00	11,151.00	1885			
2d St	Rank st	8th av. N. E	Kettle River	1.00	971/	4,495.10 6,494.50	6,675.88 6,658.40	1884			
6th av. N	Wash. av	6th st	16	1.10	1.10	2,886.50	3,175,15	1889			
6th av. N	Oak Lake av.	Bradford av	• 6	1.10	1.10	134.00	3,175.15 147.40 9,976.01	1889			
6th av. N	5th st	James av	46	[1.10]	1.10	9,069.10	9,976.01	1888			
6th av. N	Humboldt av.	James av	Timostono	1.10	1.10	371.60 480.00	408.76	11889			
6th av S	Wash av	4th st	Limestone	1 15	1 14	1 201 60	604.80	1885			
6th av. S	4th st	10th st	Kettle River.	1.00	.971/2	1,291.60 3,781.60	1,472.42 3,810.89	1888			
6th st. S	Hennepin av.	Nicollet av	Limestone	1.40	1.26	1,144.00	1,441.44	1885			
6th st	Nicollet av	1st av. S	"	1.40	1.35	760.00	1,026.00	1884			
6th st. S	1st av	2d av	Kettle River.	1.00	1.971/2	455.40	444.02	1887			
6th et S	2d av	6th ov	66	1.10	1.10	668.50 $2,217.40$	730,30	1888			
7th av. S	Wash, av	7th st	4.	1.10	1.10	3,449.90	3 704 80	1889			
7th st. N	Hennepin av.	1st av	Limestone	1.15	1.14	727.10	828.89	1886			
7th st. S	Hennepin av.	2d av	Kettle River.	1.00	.971/2	727.10 1,806.60	3,810.89 1,441.44 1,026.00 444.02 735.35 2,439.14 3,794.89 828.89 1,800.19	1887			
7th st. S	2d av	7th av	Limestone	1.30	1.26	3,840.00 1,210.90 754.20	4,838.40 1,220.73 950.29	1885			
7th st	Central av	3d av. N. E	Limestone	1.00	1 96 /2	1,210.90	1,220.73	1888			
3d av N	2d st	3d st.	Limestone	1 40	1 35	1,614.08	2,179.00	1885			
3d av. S	1st st	2d st	6.6	1.30	1.35	663.00	895.05	1884			
3d av. S	2d st	Wash. av	66	1.70	1.70	610.00	895.05 1,037.00 3,660.20	1883			
3d av. 8	Wash. av	7th st	44	1.15	1.14	3,100.70	3,660.20	1886			
3d av. S	Main st	24th st		1.00	.971/2	10,447.60	10,358.47	1886			
3d av N E	6th st	Harrison st	Kettle River.	1.00	.971/2	5,622.20	5,778.65	1888			
3d av. N. E	2d st	6th st	66	1.00	.971/2	1,307.00	1,283.08	1887			
3d av. S. E	Main st	University av	6.	1.00	.971/2	1,075.20	1 1048 39	11007			
3d av. S. E	University av	Division st	T :	1.10	1.10	4,648.10 2,242.67	5,112.91 3,027.60 7,535.38	1888			
30 St	ad av	6th av	Limestone	1.40	1.35	5,980.46	3,027.60	1884			
3d st. S	6th av.	10th av.	66	1.15	1 14	2,664,90	3 037 00	1885			
10th av. N	1st st	2d st	Kettle River.	1.10	1.10	2,664.90 23.90 2,112.30	3,037.99 26.29 2,408.02	1889			
10th av. S	3d st	Bridge	Limestone	1.15	1.14	2,112.30	2,408.02	1886			
10th av. S	3d st	14th st	Kettle River.	1.10	1.10	4,418.30	4,860.13	1888			
10th av. S. E	6th st	Sth st.	66	1.00	.971/2	3,254.10	3,238.82	1888			
10th av. S. E	5th st	6th st	66	1.00	.971/2	382.90	381.17				
10th st	Hennepin av.	Nicollet av. (66	1 00	0771/	4,444.30					
10th st	5th av. S	Chicago av.	6.	1.00	0772	2,777.00		1			
10th St	od av S	Clinton av	66	1.00	1 10	3,254.00	3,267.08	1887			
24th st	Stevens av	3d av. S.	66	1.10	1.10	1,034.90 1,234.30	1,357 79	1888			
Univ. av. N. E.	5th av	6th av	66	1.10	1.10	1,234.30 587.20 3,686.30	3,267.08 1,138.39 1,357.73 645.92 3,753.11 10,688.96	1880			
Parks in Oak. Plymouth av. Plymouth av. Plymouth av. Prince st. Royllymouth av. Rollins st. Royalston av. 2d av. N. 2d av. N. 2d av. S. 2d st. 6th av. S. 6th av. N. 6th av. N. 6th av. N. 6th av. N. 6th av. S. 6th st. S. 6th st. S. 6th st. S. 7th st. 3d av. N. 7th st. S. 7th st. 3d av. N. 3d av. N. 3d av. N. 3d av. N. 3d av. S. 3d st.	Central av	5th av. N. E		1.00	.971/2	3,686.30	3,753.11	1888			
University av. University av. Wash'gton av. Wash'gton av. Wash'gton av. Wash'gton av. Western av. Wash'gton av	Central av	Bridge	Limonton	1.00	1.971/2	10,693.30	10,688.96	1887			
Wash'gton av.	4th av N	14th av N	Limestone	1.50	1 14	860.00 6,006.90	6 847 85	11885			
Wash'gton av.	14th av. N	19th av. N	Kettle River.	1.10	1.10	3,469.90	3.816.80	1880			
Wash'gton av.	2d av. N	8th av. S	Limestone	1.70	1.70	7.701.90	13.195 22	311882			
Wash'gton av.	8th av. S	10th av. S	46	1.30	1.26	1,552.00 5,340.00	1,955.52	1885			
Western av	R. R. bridge	Irving av	P.Com C.&G.	.81	.80	5,340.00	4,272.00				
Wash'gton av.	11th av. S	Codor ov	Limestone	1 15	1.14	3,901.00	4-441.14	1 85			
Western av.	R. R. bridge 10th av. S 11th av. S 1st av. N	R. R. bridge	•6	1.15	1.14	3,630.50	4,138.77	1 1 2 2 6			
	Curb corners	Catch basin o	eovers.	Price	3.		2,230,11	1000			
	49			\$11.	00		539.00				
	193			9	.00		1,737.00				
	376			8 17	.00		3,008.00)			
67.05 miles.			6 86 56	17	.00		102.00 1,376.00)			
			86	16.	.00		1,376.00				
		1	56 900	13	.00		2,184.00 2,600.00	\ 			
		ĩ	39	12	.00		1.668.00				
Totals	618	5	187			354,019.82	\$409,357 18	3			
	*Not ass	-	nlzhumt'a Comb		61 0	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	14400,1901 10	4			

Table No. 7.
CURB AND GUTTER SET DURING THE SEASON OF 1889.

STREET.	FROM—	То	. KIND.	Rate of assessment per lineal foot.	Contract price per lineal foot.	Length, feet.	Cost.
Cedar av	6th av. S	7th st. S	Kettle river stone	1.10	1.10		
	8th st 10th av			1.10	1.10	320.1	352.11†
1st st. N	Oth av	10th av	66 66	$1.10 \\ 1.10$	$\frac{1.10}{1.10}$	$169.3 \\ 60.8$	186.23†
Sth st. S 1st st. N 5th st. N. E Highland av.	2nd av	Wash'ton st.		1.10	1.10	735.5	66.88† 809.05†
				1.10	.90	3,262.6	2,936,34†
Parks in Oak	Lake addition		Granolithic Kettle river stone	*	.90	696.4	626.76+
Plymouth av.	6th st	Lyndale av	Kettle river stone	1.10	1.10	629.6	692.56†
Portland av	Grant st	Lake st	Parkhust Combi-	n.a	alle me	4 2 0 0 0	
Povelston ov	D D bridge	6th ov N	nation C & G Granolithic	.76	.75		11,971.50
6th av N	Wash'ton av	6th at	Wattle mirror atoma	1.10 1.10	.90 1.10	4,046.2 2,886.5	3,641.58† 3,175.15†
6th av. N	Humboldt av.	James av	" stone	1.10	1.10	371.6	408,76†
6th av. N	Oak Lake av.	Bradford av	46 66	1.10	1.10	134	147.40
6th st. S	3rd st	6th av	66 66	1.10	1.10	2,217.4	2,439.14+
10th av. N	1st st	2nd st	"" "" "" "" "" "" "" "" "" "" "" "" ""	1.10	1.10	23.9	26.29†
24th st	Stevens av	3rd av. S	"	1.10	1.10	1,234.3	1,357.73+
Univ. av N. E.	5th av 14th av	oth av	"	1.10	1.10		645.92†
Western av	R R hridge	Irving av	Parkhust Combi-	1.10	1.10	3,469.9	3,816.89†
TOSTOLII WV	w. w. bridge	11 · 1116 (1 · · · · · ·	nation C & G	.81	.80	5,340	4,272.00#
Incidentals							3,347.10
8.111 miles.			Total			42,818.8	47,658.04
On various	streets gutter	stone to com	plete contract of	1887		30,000	6.000.00

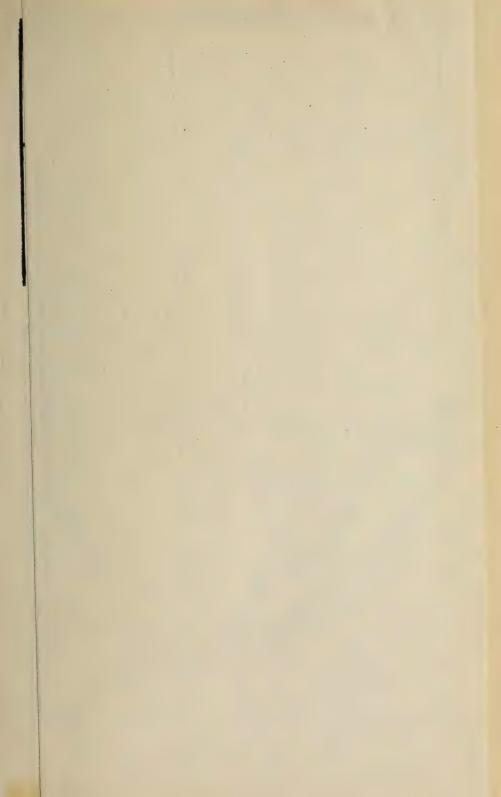
^{*}Not assessed.

Table No. 8.

CURB TO BE SET DURING SEASON OF 1890.

Assessed at \$1.10 per lineal foot, except Western avenue, which was assessed at 81 cents. All curb put in by the city is furnished and set by contract, and all assessable property is assessed by the front foot for its exact frontage on the street where curb is put in. The general city pays the cost of curb around corners and in front of property exempt from special assessments. The tax for curb is paid in five yearly installments.

			٦ <u>.</u>	Est	IMATED C	
Street.	From—	то-	Estimated length— feet.	Total.	City's proport'n	Prop'rty's proport'n
Central av	9th st	10th st	786	864.60	254.65	609.95
8th av. N	Oak Lake av	Lyndale av	1,198	1,317.80	56.10	1,261.70
8th av. N. E	University av	7th st	2,880	3,168.	232.10	2,935.90
11th av. S		8th st	820	902.	176.	726.
11th st. S	Nicollet av	6th av	3,843	4,227.30	394.90	3,832.40
Franklin av		Minnehaha av		8,335.23	1,426.35	6,908.88
1st av. N		Western av		2,336.40	114.84	2,221.56
		5th st	2,700	2,970.	66.	2,904.
oth st. N. E	Central av	4th av. (E. side)	1,544	1,698.40	52.91	1,645.49
Hawthorn av	9th St. N	Lyndale av 4th av. (W. side)	5,728 850	6,300.80 935.	1,206.70 24.20	5,094.10 910.80
Marshall et	eth ov N F	14th av. N. E	4,834	5,321.80	595.87	4,725.93
Minnehaha av			2,015	2,216.50	358.60	1,857.90
Park av	95th et	28th st	4,022	4,424.20	573.43	3,850.77
6th av. N. E	Marshallst	Main st	685	753.50	27.50	726.
10th av. N	1st st	Washington av	1,418	1,559.80	474.87	1,084.93
10th st. N. E	Central av	3rd av	403	443.52	88.	355.52
20th av. N	2nd st	Bryant av	5,505	6.055.50	1.028.72	5,026.78
Vine place	Oak Grove st	19th st	1,674	1,741.40	184.90	1,556.50
Western av	Colfax av	Emerson av	2,865	2,320.65	387.14	1,933.51
10.675 miles.		Total	53,475	57,892.40	7,723.78	50,168.62



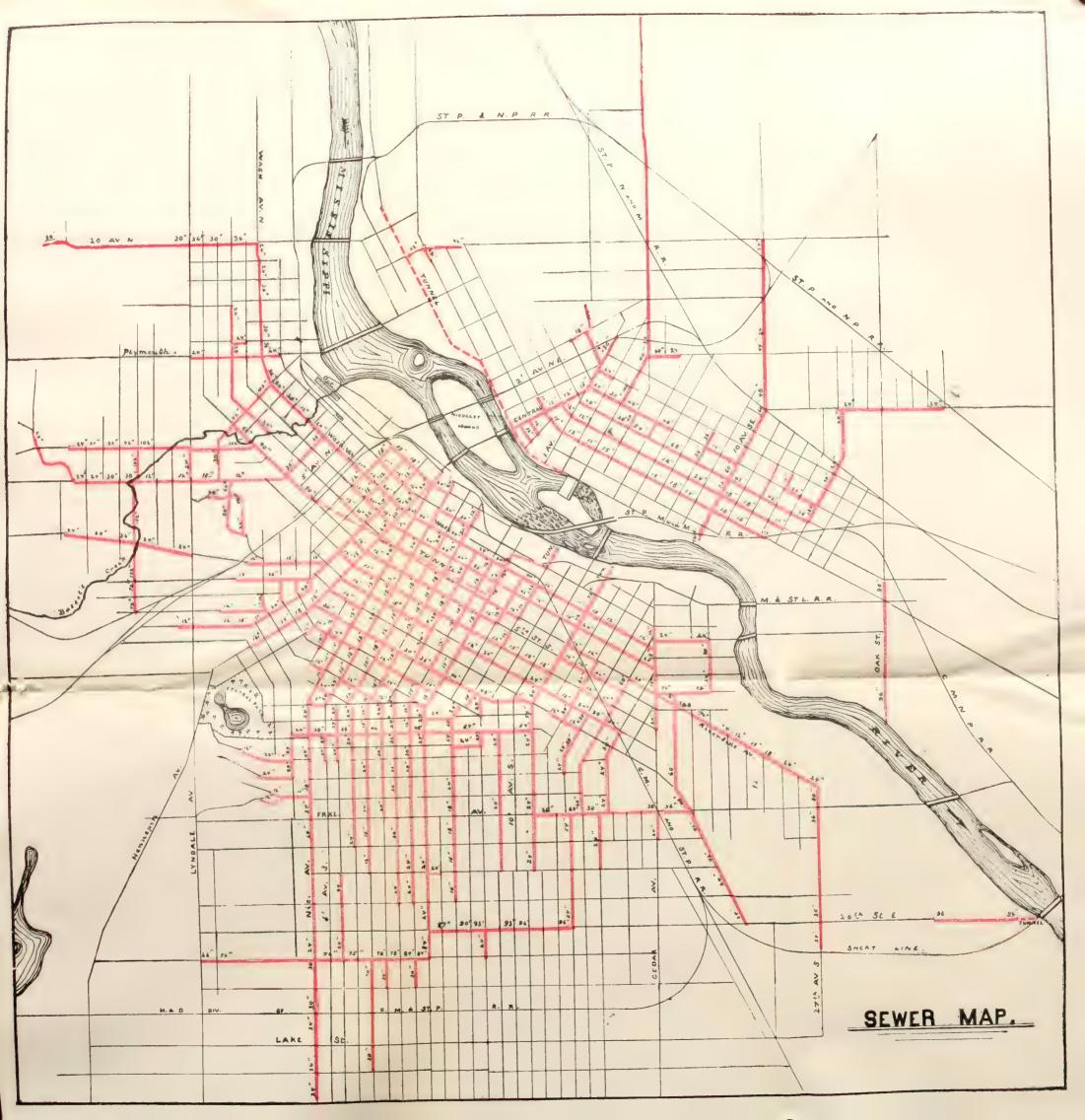


Table No. 9.
SEWERS CONSTRUCTED PREVIOUS TO JANUARY 1st, 1890.

STREET.	From—	то	Size in inches.	Kind.	Shape.	Length in feet.
Bloom'ton av. Broadway av. Cedar av Cedar av	Franklin av 11th av. N. E. Wash'ton av. 3rd st	24th st	24 42 12 15		Oval	1,311. 906.2 494.3 495.2
Cedar av Cedar av Cedar av	4th st	5th st	18 24 24 24 24	Brick	Egg Oval	404 0
Central av Central av Central av Central av Chicago av	Drain at river 4th st	5th st	15 12 15 30 24	Cement " Brick		1.218, 415.8 425, 1,335.1 411.9
Chicago av Chicago av Clinton av	15th st		24 24 24 24 30	44 44 44 44	44	309.3 647.3 570.4 644,3 1,307.1
Clinton av Clinton av Clifton av	Vine Place, W. 15th av. S. E.	side lt. 17, blk. 3, Hillside 23rd av S. E	24 30 24 24		66	716.7 1,447.2 355.7
Division st Division st Dupont av Dupont av Elwood av	Tyler st	Tyler st Polk st 1st av N 8th av. N	30 24 72 8.5x6	Brick and stone	"	355.7 334.4 646.5 3,087.8
8th av. N 8th av. N	side Barns' Bassetts' crk. 260 ft. W. of Lyndale av.	park, 10av. N. Lyndale av Dupont av	24 90 8.5x6	Brick	Egg Circular	1,851. 1,243.6. 1,448.1
8th av. N 8th av. N 8th av. N 8th av. N	Dupont av Emerson av Fremont av Humboldt av.	Emerson av Fremont av Humboldt av. Irving av	\begin{cases} 24 \\ 42 \\ 36 \\ 30 \\ 24 \end{cases}	"	66	393.7 396.8 661.6 403.1
8th av. S 8th av. S 8th av. S	Fremont av Humboldt av. Wash'ton av. 3rd st 5th st	3rd st	36 15 24 12 15	"Cement	Oval	350.6. 420.9 42. 311.4
Sth av. S. E	Mary Place	7th st	36 12 12 12	Brick	EggOval	406.9 817.3 443.7 239.7 786.3.
8th av. S 11th av. N. E 11th av. S 11th av. S 11th av. S 11th av. S	12th av. Broadway st. Well by 1st st. 3rd st 8th st	Marshall st 3rd st 8th st 15th st	42 72 60 54 24	Briek	44	367.3 1,144.5 2,038. 645.4 3,199.1
11th st. N 11th st. S 11th st. S Franklin av	1st av. N. 3rd av. S. 4th av. S. 11th av. S.	Hawthorn av. 4th av. S 5th av. S 12th av. S	12 12 12 30	Pipe Brick	Oval " Egg	600.2 350.2 356.2 200.
Franklin av Franklin av Franklin av Franklin av Franklin av	3rd st. 8th st 15th st 1st av. N. 3rd av. S. 4th av. S. 11th av. S. 12th av. S. 13th av. S. 13th av. S. 15th av. S. 15th av. S. 16th av. S. 16th av. S.	13th av. S 14th av. S 15th av. S 16th av. S Cedar av.	33 36 60 30 30	66 66 66	66 66 66 66 64	330.4 339.4 221.2: 747.3 919.8
1st av. N 1st av. N	Min'ehaha av Ist st Wash'gton av 3rd st 9th st	2nd st 3rd st 9th st.	36 12 24 30 15	Cement. Brick Brick	Oval Egg Egg	751.5. 411. 424.6. 2,187.2. 725.6.
1st av. N	194.2 feet w. of	343.7 ft. to'rds	12 12 12	Cement	"	554.9 149.4 239.7
1st av. S 1st av. S 1st av. S st av. S	2nd st. to ½ w'y ½ way bet. 3rd	bet. 3rd & 4th. & 4th sts. to4th	24 24 24 15 24	Brick	Circular Egg	400. 1.029. 193.5. 1,126.7 763.
1st av. S	7th st. 9th st. 11th st. 12th st.	11th st 12th st 13th st	18 15 24	Brick Cement. Cement. Brick	Oval Oval Egg	831.4 461.5 309.5

Table No. 9.—Continued.

SEWERS CONSTRUCTED PREVIOUS TO JANUARY 1st, 1890.

STREET.	From-	то-	Size in in.	Kind.	Shape.	Lengt in fee
at av 6	19th et	Grant at		Comont	Ovel	
st av. S	13th st	17th st	15 24	CementBrick.	Egg	280 705
st st. N	Nicollet av	2nd av.	18	Cement	Egg Oval	889
st st. N	Nicollet av 2nd av Nicollet av Wash'gton av	3rd av	15	Cement.	" ······	410
st st. S	Nicollet av	1st av	24	44	66	400
th av. S	Wash'gton av	4th st	24 24	Brick	Egg	818
th av. S			18	Cement Brick Brick	Oval	825
th av. S	6th st	9th st	24	Brick	Egg	1,12
th av. S	11th st	15th st	24			910
th av. S	15th st	18th st	36	Brick	"	1,028 1,575
th av. S	18th st	22nd st	30			1,57
th av. S	18th st. 22nd st. 24th st. 5th st. 1st av. 2nd av. Bassett's cr'k 14th av.	24th St	24 24		66	630
th av. S	54th St	6th at	48		"	678
th av. S. E th st. N th st. N	1ct ov	2nd av	15	Cement		398
th et N	2nd av	3rd av	12		Oval	400 360
th st. N	Rassett's cr'k	14th av.	24	Brick	Egg	2,36
th st. N	14th av	15th av.	24	Brick	-55 ·····	409
h st. N	15th av	16th av		46	Egg	40: 39: 41:
h st. S	Nicollet av 1st av. S	1st av	24	66		41
h st. S	1st av. S	3rd av	12	Cement	Oval	71
h st. S	Nicollet av 3rd av 11th av	Hennepin av.	12 12	44	"	34
h st. S	3rd av	8th av	12	66	**	1,740 81
h st. S	11th av	13th av	12		War.	81
h st. S	lotn av	Cedar av	60	Brick		630
h st. S	15th av. Cedar av. 19th av. Central av.	19th av	60	66		43
h st. S. E	Control ov	2nd av	72 12	Cement	Ovol	80: 71
h st. S. E	2nd av	4th av	19	cement	oval	82
h st. S. E	4th av. 6th av. 8th av.	6th av	15	" " "	66	89
h st. S. E	6th av	8th av	18		- 66	819
h st. S. E	8th av	10th av	24	46	6.6	81
h st. S. E	10th av	12th av	18			819
h st. S. E	12th av	14th av	15 .			82
h av. S	Wash. av	3rd st	12	66		37
h av. S	12th av 12th av Wash. av 3rd st. 4th st.	4th st	18	***************************************		408
h av. S	4th st	6th st	. 15	"	66	82
h av. S	6th st	7th st	12	********		20
			14	********		810
h av. S	9th st. 10th st. Grant st	Cront at	18 15			399
h av. S	Grant et	15th et	12	46	66	577 578
h av S	15th st	17th st	30	Brick	Egg	64
h av. S	17th st	18th st	24	"		38
h av. S	18th st	24th st	24	"	66	2,29
h av. S	27th st	28th st	30	46	46	64
h st. N	Hennepin av	1st av	12		Oval	351
n st. N	bet. 4th & oth	avs. to oun av.	8.5x.6	Brick and stone		694
h st. N	6th av	Bassett's cr'k	90	Brick	Various	913
	20 111	40.17	(48			10
h st. N	Bassett's cr'k	ioth av	$\begin{cases} 30 \\ 60 \end{cases}$	Brick and stone Brick	Egg	61
h st S	Hennepin av.	Nicollet av	12	Cement.	Oval	48'
h st. S	Hennepin av. Nicollet av. 1st av. 2nd av. 3rd av. 4th av. 1ith av. 13th av. 14th av. 1st av. 4th av. 19th av. 19th av. 19th av.	1st av	12	Ceinent	1 66	352
h st. S	1st av.	2nd av	12 12	4.6	"	352
h st. S	2nd av	3rd av	12	66	66	35]
h st. S	ord av	4th av	12	44	66	352
h st. S	4th av	5th av	12 12	"	"	351
h st. S	5th av	6th av	12	66		353
h st. S	11th av	13th av	12			81-
n st. S	13th av	14th av	30	Brick	Egg	378
h et S F	14th av	4th ov	36 30	46	"	402 1,207
h st S E	4th av	6th av	54	•6	46	876
h st. S. E	6th av.	10th av.	60	46	"	1.648
h st. S. E.	10th av.	13th av	42	66	66	1,240
h st. S. E.	13th av	15th av	36	64	44	1,240 795
th av. N	0th av	5th st	18	Cement	44	329
th av. S	7th st	9th st	30	Brick	66	812
th av. S	9th st	18th st	24	66	46	712
th av. S	Franklin av 24th st	24th st	54	66	46	1.348
th av. S	24th st	26th st	54	66	44	1,327
th st	Portland av.	Park av.	24			1.302
tn av. S	4th st	oun st	60 60	66	66	869 2,510
th or C						

Table No. 9.—Continued. SEWERS CONSTRUCTED PREVIOUS TO JANUARY 1ST, 1890.

STREET.	FROM-	То-	Size in inches.		Shape.	Length in feet.
						mieet.
15th or C T	Qth at	Rollins av	91		"	(10.11
15th av. S. E 15th av. S. E	Rollins av		24 24 24	4.6		606.a 904.7
15th av. S. E. 15th st Harmon place	Nicollet av	Como av Vine place	24	**	**	397.2
15th st	Nicollet av	Stevens av	30 36		**	664.3
15th st	3rd av	4th av. S	42	**	**	623. 652.8
15th st	4th av. S	Park av	48		**	1,324.2
15th st	Park av	11th av. S	54			1,740.5
Harmon place	Nicollet av	lith st	15 10	Cement	Oval	353. *339.9
Harrison st	Division st	Summer st	36	Brick	Egg	1,980.9
Harrison st Harrison st Hawth'rn av.	Summer st	20th av. N. E	36	Cement. Cement. Brick Brick Cement.	Egg	4,383.9
			24 18	Coment	Oval	1,079, 389.2
Hawth'rn av. Hawth'rn av. Hennepin av. Hennepin av.	13th st	15th st	18 15			469.2
Hawth'rn av.	15th st	Lyndale av	12 24 24	Brick	**	982.7
Hennepin av.	Ist st	Wash. av	24	Brick	Circular	835.5
Hennepin av.	4th st.	6th st.	15	Cement.	Oval	875.2 834.9
			12	**		415.8
Hennepin av.	7th st	9th st	12	********		804. 662.3
Hennepin av.	9th St	13th st	18 15	**	* *	662.3 775.7
Hennepin av. Hennepin av. Hennepin av. Hennepin av.	13th st	Spruce place.	12			435.6
Highland av. Highland av.	Royalston av.	Royalston av.	24	Brick	Egg	1,285.9
Highland av.	Mid. lot 15, B.2,	Porrelaton or	91	6.		F00.0
Humboldt av. Johnson st Knox av	Dr'n 6th av.N.	Royalston av. tow'd5th av.N	24 12	Cement.	Oval	526.6 177.6
Johnson st	Division st	Broadway st. line, l. 10, b. 3 Oak Park	24	CementBrick	Egg	2,649.9
Knox av	10th av.N.to S.	line, l. 10, b. 3	0.4			
Linden av	Hawth'rn av	13th st	24 15	Cement	Oval	$1.141.4 \\ 468.3$
Linden av	Esth et	Inth et	12 12			352.7
Linden av	15th st	16th st	12	**	**	360.9
Linden av Lindley av Lyndale av Main st. N. E.	19th st	Ridgewood av	12 24 24 24	Briek	Form	141.
Main st. N. E.	10th av	11th av.	24	64	reg	798. 388.6
Mary place Min'haha av . Min'haha av .	Jul St	10011 86	12	Cement	Oval	406.1
Min'haha av .	19th av. S	Franklin av	48 42	Brick	Egg	562.3
Min'haha av	24th st.	24th st	24	**	"	731.5 1,476.6
Min'haha av. Min'haha av. Monroe st Nicollet av Nicollet av Nicollet av Nicollet av	3d av. N. E	Spring st High st 5th st 7th st	24	**	64	668.2
Nicollet av	st st	High st	12	Cement	Oval	219.4
Nicollet av	th st	7th st	24 15	Cement	Egg Oval	2,416.9 383.7
Nicollet av	th st	stn st	12		", ······	393.
		9th st	12	**		366.5
Nicollet av!	Oth st	10th st	18 15	*********		405.1
Nicollet av	0th st	half way to		** ************************************		836.9
		half way to 13th st	12		_ **	215.1
Nicollet av 1	3th st	15th st	24 24	Brick	Egg	1,025.1
Nicollet av 1 Nicollet av 1 Nicollet av 1 Nicollet av 2 Nicollet av 2 Nicollet av 2	7th st	9th st	18	Cement	Egg	665.3 851.5
Nicollet av 1	9th st	22d st	24	Brick		1,049.7
Nicollet av	2d st	27th st	24 30	**	**	2,563.5
Nicollet av 2	9th st	ed st	24		**	1,311.9 1,464.9
th av. S 1	5th st	Franklin av	24	**	66	1.872.
th st. N 1	st av. N	Hawthorn av	24 30	**	**	275.4
th st. S	d av	d av. S	36	.,		1,755 5 825,7
th st. S	th av	th av	42	**	**	810.4
th st. S 6	th av	Oth av	48		**	1,732.2
oth st. S 1	th st	th st. & 11 av.	51 60		**	400.3
9th av. 8 7	th st	oth st	60			1,260. 961
9th st	Vicollet av	Vine Place	12	Cement	Oval	961. 587.7
9th st	Vine Place	00ft.wLin'ley	24	Brick	Egg	590.
Nicollet av. 2 Nicollet av. 3 Nith st. S. 1 Nith st. S. 2 Nith st. S. 6 Nith st. S. 6 Nith st. S. 6 Nith st. S. 7 Nith st	Vine Place	250ft. w Spruce	96 24	Cement	Errar	2,939.7
Jak Grove st.	50ft w Spruce	800ft.w Spruce	12	Cement	Oval	654.2 472.7
Jak UTUVE St. 14						

Table No. 9.—Continued. SEWERS CONSTRUCTED PREVIOUS TO JANUARY 1ST, 1890.

	1	I		1	1	
STREET.	From—	То	Size in inches.	Kind.	Shape.	Length in feet.
Durals or	10+1 0+	00d at	10	Comment	Orra I	1 110 9
Park av	19th st	25th et	18 15	Cement	Oval	1,110.3 1,269.8
Plymouth av.	2d st	Lyndale av	24	Brick	Egg	2,037.4
Portland av	Grant st	26th st	24	46	Dag	5,072.
Portland av	26th st	27th st	84	Cement	4.	628.6
Prince st	Central av Lindley av	27th st Bank st	12	Cement	Oval	436.
Ridgewood av	Lindley av	Pleasant av	12		**	581.3
Riverside av.	4th st. S	19th av. S	5 24 1 12	Brick	Egg Oval	68.
			30	Priek	Err	160.2 476.3
Riverside av.	19th av. S 20th av. S	22d av. S	24	Brick Cement Brick	Egg	953.6
			1 15	Cement		375.7
Riverside av.	22d av. S		1 12 1		Oval	1 .45.
Riverside av.	23d av. S	25th av. S	18	** ***		955.9
Riverside av.	25th av.S 6th av. N	27th av. S	24 24	Brick	Egg	1,000.5
Royalston av.	Crosst ct	Holden St	24 24	**	**	1,854.6 1,280.6
Stevens av	24th et	17th st 27th st	24	**	4.	1,939.6
2nd av. N	11st st	2nd st	12	Cement	Oval	413.2
			4.0	Cement		· 380.
2nd av. N	Wash. av	3rd st	15	**	4.	360.
2nd av. S	Wash. av. Wash. av. 4th st	4th st	24	Brick	Circular	809.4
2nd av. S	4th st	6th st	18	Cement	Oval	818.4
2nd av. S	6th st	8th st	15	**		775.8 400.
2nd av. S	8th st	10th et	12 18			412.
2nd av S	10th st	11th st	15			410.
2nd av. S	11th st	Grant st	12	**		862.9
2nd av. S	Grant st 15th st Hennepin av 1st av 2nd av Central av.	15th st	24	Briek	Egg	862.9 615.6
2nd av. S	15th st	22nd st	24	**	**	2,613.6
2nd st	Hennepin av.	3rd av. N	12	Cement	Oyal	1,069.
and st. S	lst av	2nd av	24 30	Brick	Egg	402.3 405.
2nd st S E	2nd av Central av	Bank st	12	Cement	Oval	365.8
	5th st		36	Brick	Egg	1,278.
	5th st		1 15 1	Cement	Oval	5 584.9
oth av. av	Juli St	Oak Lake av	1 175	Cement	O (a1	1,020.5
6th av. N	Oak Lake av.	Lyndale av	1 12 1	**	44	164.1 454.4
6th av. N			(10)	6.		1.161.2
6th av. N				Brick	Egg	320.2
6th av. N	Emerson av	Elwood av				1,007.7
6th av. S	Wash, av	3rd st	12	Cement	Oval	365.
bth av. S	3rd st	4th st	. 18			397.2
6th av. S	4th st	6th st	15 12	**		
6th av. S	7th st	7th st	19	***		755.8
6th av. S	9th st	10th st	12 15	**		333.5
6th av. S	110th st	Itow'rds 11th st	12	**	**	149.8
6th av. S	. 110th st	ltwds Grant st	. 15	**	**	216.7
6th av. S	Grant st Hennepin av	tow'rds 10th s		4.		
6th st. N	Hennepin av.	1st av	12			357. 593.1
6th st. S	Hennepin av.	Nicollet av twds Nic. av.				
5th st. S	1st av	2nd av	15	**		
6th St. S	. 2nd av	3rd av	.1 12	6.		349.4
6th st. S	. 3ra av. ,	4th av	12	**		134.
6th st. S	3rd av	4th av	. 15			217.1
6th st. S	6th av	6th av	12	Cement		716.5
6th st.S 6th st.S	8th av	8th av9th av11th av	. 12 . 15		Oyal	817. 408.9
6th et S	9th av	11th av	18			812.3
6th st. S				**		
6th st. S 6th st. S. E	. Central av	3rd av	. 30	Brick		796.5
oth St. S. E	. 3rd av. S. E	4th av	. 48	**		403.2 431.3
6th st. S. E	eth av. S. E	5th av 10th av	. 24	Comont	Ovel	
6th st, S. E 6th st. S. E			. 10	Cement		
6th st. S. E	. 13th av . 14th av	. 14th av 15th av	24	DITCK	. Egg	398.5
7th av. S	. Wash'ton av	3rd st	12	Cement	Oval	422
7th av. S	3rd st	15th et	15	Cement		797.
7th st. S	. Nicollet av	. Hennepin av	. 12			711.8
7th st. S	. Nicollet av	Hennepin av 1st av 2nd av	. 12	***************************************		361.6
7th st. S	and av	th ox	. 15	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		407.5 764.
7th st S	2nd av 6th av	11th av	24	Brick		2,050.5
1011 176 17		(()	. ~ 7	1.11 CA	. 1088	~,000.0

Table No. 9,—Continued. SEWERS CONSTRUCTED PREVIOUS TO JANUARY 1st, 1890.

STREET.	FROM—	То	Size in inches.	Kind.	Shape.	Length in feet.
7th st. S	11th av	13th av	12	Cement	Oval	760.
7th st. S	13th av 14th av	16th av	24 30	Brick	Egg	359.2
7th st. S	Central av	3rd av	24	**	6.6	813.4 828.7
7th st. S. E	Central av	2nd av	24 24	66	6.	359.5
16th av. S 16th av. S	7th St	9th St	30		"	906.5
16th av. S	9th st	Franklin av	24 24			995.4
16th st Todd's Pond	Park av Dr'n into 20th	Chicago av	18	Cement	Oval	490.3
3rd av. N	ligh et	Bro St	15			413.2
3rd av V	1st st	3rd st	12			860.3
3rd av. S 3rd av. S	1st st 2nd st Wash'ton av	2nd st	12	Brick	** · · · · · · · · · · · · · · · · · ·	370.9
3rd av. S	2nd st	Wash'ton av	30 12	Cement	Egg	408.8 408.8
320 937	3rd st	5th st.	18			772.9
3rd av. S	5th st	7th st	15	**		766.3
3rd av. S 3rd av. S 3rd av. S	7th st. 9th st. 11th st.	8th st	12	***********	**	373.6
3rd av. S	9th st	11th st	18	*********		806.
3rd av. S	11th st	Crent st	15 12	*******		413.2
3rd av. S	12th st Grant st	14th st	12	66		181. 312.1
ard av. S	14th St	Tota St	15		66	303.5
3rd av. S	15th st 17th st	17th st	30	Brick	Egg.	629.5
3rd av. S	17th st	Franklin av	24	Brick. Cement.	Egg	1,255.3
3rd av. S	Franklin av	22nd st	15	Cement	Oval	651.7
3rd av. S	22nd st	24th St	12 30	Cement	Foo	622.1 $1,325.8$
3rd av. S 3rd av. S 3rd av. N. E 3rd av. S. E 3rd st. N 3rd st. N	27th st	31st st	24	Brick. Brick. Cement.	Egg	1,250.9
3rd av. N. E	6th st		18	Cement	Öval	483.4
3rd av. S. E	6th st	Division et	40	Brick	Egg	1,201.2
3rd st. N	Hennepin av.	1st av	30	Brick	Egg	396.2
3rd st. N	1st av	2nd av	15	Cement,	Oval	441.7
and et S	Hennenin av	Nicollet av	12 12	"	66	354.2 215.
3rd st. S.	Hennepin av. lst av. 2nd av. Hennepin av. Ist av.	3rd av. S	24	Rniak	H'ccc	822.9
			33	iii	**	412.5
3rd st. S	4th av. 5th av. 6th av. 8th av.	5th av. S	36			420.7
3rd st. S	5th av	6th av. S	39	**		406.6
3rd St. S	8th av	10th av S	42 24	66		$821.6 \\ 714.1$
			12	Cement	Oval	354.6
3rd st. S	11th av	12th av. S	24	Brick	Egg	406.
3rd st. S	11th av	Cedar av	24		44	1,588.
10th av. N	Well of 2nd at	wasn'gt'n av.	42 72	**		1,257.5 1.202.9
10th av. S. E	5th st	7th st	60	66		835.8
10th av. S. E	7th st	Como av	60	**	6.6	979.6
10th ov S E	Como av	Talmage av	48	**	**	597.5
10th av. S. E	Talmage av	Division st	45	Cement		671.3
10th av. S. E 10th st. N 10th st. S	1st av Harm'n place	H'wth'rne av.	12 12	Cement	ovai	397.9 312.4
10th st. S	Mary place	Nicollet av	12	6.		326.4
10th st. S	Nicollet av.	1st av	12	**	• •	349.4
10th st. S	Mary place Nicollet av 2nd av	3rd av	12 12	**	4,	363.
10th St. S	sra av	4th av	12			353.1
10th St. S			12	**	**	348.4
12th st. S	Nicollet av.	Nly. line 1. 11, b. 27, Snyder & Co.'s add.	12	٠٠		194.3
	1	& Co.'s add.				10210
12th st. S	1st av	2nd av. S	12			355.3
12th st. S	2nd av	Clinton av	12			522.8 345.8
12th St. N	5th et	Grestnut av	12 30		Egg.	424.
13th av. S	6th st	8th st.	24	Brick	Egg	812.5
13th av. S	oth st. 6th st. Nicollet av. Wash av. 4th st. Lyndale av. Emerson av. Wash av.	7th st	18	Cement	Oval	405.7
13th st.S	Nicollet av	1st av	24	Brick	Egg	455.4
10th av. N	Wash. av	th St	36	**	**	803.9
20th av. N	Lyndolo ov	Emorgon av	30 36			790.9
20th av N	Emerson av	James av	30	**		1,583.1 1,733.2
21st av. S.	Wash. av	4th st	24	**	**	1.219.4
24th st	Portland av	6½ av. S	24		**	277.8
26th st	Portland av.	6½ av. S	87	**		·5·5().
26th st	Portland av 6½ av. S 6½ av. S	7½ av. S	87 90			263.
20th St	0,2 av. S	172 av. D	:30			394.2

Table No. 9.—Continued.

SEWERS CONSTRUCTED PREVIOUS TO JANUARY 1st, 1890.

STREET.	From-	то	Size in inches.	Ki	nd.	Shape.	Length in feet.
26th st	7½ av. S	10th av. S	93	Brick		Egg	978.9
26th st	10th av. S	14th av. S	96	+4		-0,0	1,306.5
26th st		Riverside av.	96			46	1,776.9
27th av. S	Riverside av.	Franklin av	30				450.5
27th av. S	Franklin av	26th st	36				2,615.
27th av. S	26th st	27th st	34				594.7
27th st	Nicollet av	Garfield av	72			Circular	2,308. 331.8
27th st	Garfield av	Lyndale av	66 72				654.5
27th St	Nicollet av Stevens av	ed ov S	75			"	664.4
27th st		4th av. S	78	6.		64	655.8
27th st	4th av S	5th av. S	81	66		6.6	331.3
27th st	5th av. S	Portland av	84	46		"	336.7
Univ. av. N.E.	Central av	1st av	12	Cement.		Oval	362.5
Univ. av. S. E.	Central av	1st av	15	6.6			576.3
Univ. av. S. E.	1st av	3d av	12	b.v.			739.4
	3d av		15	66			410.2
Univ. av. S. E.		6th av	15	66			890.
Univ. av. S. E.	6th av	8th av	18 24				823.7 815.3
	8th av		18	Brick		Egg	488.8
Univ. av. S. E.	10th av	11th av	10	Cement	• • • • • • • • • •	Oval	***************************************
Univ. av. S. E.	33 ft E. of 11th	12th av	15	6.6		6.	351.6
Univ ov S E	12th av	P'nt nearTut-	10				00 210
OHIV. av. B. E.	INCH (CVI	tle's Creek	12	6.0		66	542.2
Vine place	15 st	Oak Grove st.	24	Brick		Egg	511.4
Vine place	Oak Grove st.	Clifton av	24	4.6			332.5
Wash. av. N	Hennepin av.	2d av	24	6.		Circular	769.9
Wash. av. N	2d av. N	3d av	15	Cement		Oval	354.2
Wash. av. N	3rd av	4th av	} 24 12	Brick		Egg	288.1 60.
			24	Cement Brick		Oval	1,085.5
Wash. av. N		7th av 8th av	12	Cement		Egg Oval	558.8
Wash. av. N	7th av 8th av	10th av	24	Brick		Egg	736.
Wash av N.	10th av		36	Ditek		7,0	1,062.2
Wash av N	14th av	17th av	30	66		46	1,190.
Wash, av. N.,	17th av	20th av	24	4.		**	1,031.4
Wash, av. S	Hennepin av.	2nd av	40				1,160.5
Wash. av. S	2nd av	Well 8th av	44	Brick		Circular	2,448.1
Wash. av. S		10th av	12	Cement		Oval	778.3 344.5
Wash. av. S		11th av	12				400.9
Wash. av. S	11th av	12th av	15 12	66			819.5
Wash. av. S Wash. av. S	12th av 14th av	Cedar av	12	46			512.2
Wash. av. S Wash. av. S	Cedar av	21st av	24	. 6		Egg	512.2 1,171.7
Western av		9th st	18	Cement		Oval	397.3
Western av		11th st	15	- 6		66	715.1
Western av	11th st. N	12th st	12	**		"	359.2
Western av	12th st. N	R. R. bridge	12				427.5
	Lyndale av	Dupont av	24	Brick			1,305.4
Western av	Dupont av	Emerson av	36	*6			306.1 10.
			30				750.3
Western av	Emerson av	Girard av	50				597.2
Western av	Girard av	Irving av					
Total				59.98	Miles		316,680.6

Summary of Table No. 9.

	Size in	TOTAL 3	LENGTH.
Kind.	inches.	Feet.	Feet.
Cement pipe	10 12 15 18 24	339.9 53,901.4 28,135.8 15,979.4 4,554.1	102,910.6
Brick	18 24 30 33 36 39 40 42 44 45 48 51 54 60 66 72 75 75 81 87 90 90 90 90 90 90 90 90 90 90 90 90 90	851.4 98,285.6 30,532.2 742.9 20,764. 406.6 2,361.7 7,181.9 2,448.4 671.3 5,122.6 400.3 5,138.4 655.8 331.3 965.3 593. 2,551.3 96.023.1	
Brick and stone	8.5 ft.x.6	5,230.6	213,789.1

Supplement to Table No. 9.

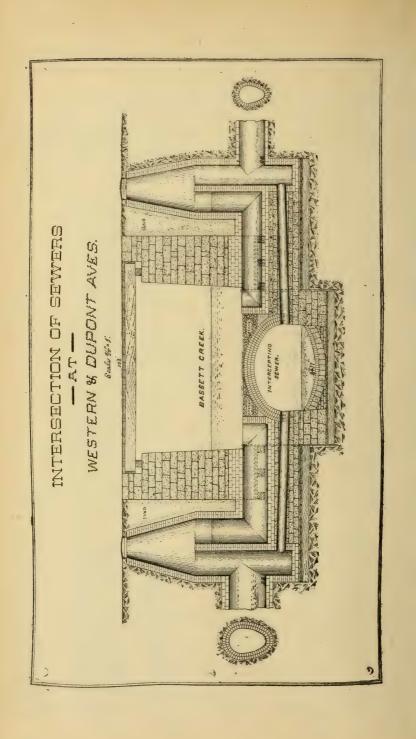
SEWER TUNNELS CONSTRUCTED PREVIOUS TO JANUARY 1, 1890.

STREET.	From—	То—	Length in feet.
4th st. S		21st av. S. University av. S. E.	860. 645. 940. 418. 7,235.3 186. 9,256.5

 ${\it Table \ No.\ 10.}$ SEWERS AND SEWER TUNNELS CONSTRUCTED DURING THE SEASON OF 1889

STREET.	From-	То—	Size in inches.	Kind.	Shape.	Length, feet.	Cost.
Oupont av	St.P.M.&M. Ry	24th st	24 24 30 24 72 8.5x6	"		1,311. 647.3 646.6 1,447.2 646.5 3,087.8	\$3,233.91 2,968.65 2,304.14 10,064.71 5,001.13 66,406.33
Elwood av	6th av.N.,S.W. side Barns'	Dir 10th ove M	24		Emm		7,557.38
8th av. N., 260	W.Lyndale av	Pk. 10th av. N. Dupont av	8.5x6	**	Egg	1,851. 1,448.1	31,768.54
8th av. N	_	Emerson av	{ 24 } 42 }		66	} 13.1 393.7	2,641.48
8th av. N 8th av. N	Eemerson av. Fremont av Humboldt av.	Fremont av Humboldt av. Irving av	36 30	"	66.	395.8 661.6 403.1	2,257.93 3,764.46 2,205.04
8th av. S		6th st	1 12	Cement.	oval	\$ 42. 311.4	1,352.69
1st av. S 1st av. S	13th st 15th st	24th st	24 15 24 24	Drick	Oval Egg Oval Egg	1,300.8 280.7 702.1 359.1	4,088.51 794.37 2,113.03 933.00
4th av. S	11th st	15th stavs. to 6th av	24	" Brick &		910.7	2,467.79
14th st	Portland av	Park av	24 15	stone Brick Cement.	Egg Oval	694.7 591.6 353.	998.99
Harrison st Humboldt av	Nicollet av Summer st Dr'n 6th av. N.	20th av. N. E to'rds5th av.N.	36 12	Brick Cement.	Egg Oval	4,383.9 177.6	49,291.00 260.75
Johnson st Knox av	Spring st 10th av. N	Broadway st S. line lt. 10, bk.	24	Brick	Egg	1,274.3	
	. 19th st	: 3. Oak Park	24 12 24 24	Brick	Oval Egg	1,141.4 141. 798. 388.6	4,660.74 338.40 2,205.56
			9.4	66	66	1,476.6 1,964.9	7,187.65
Oak st Portland av. Ridgewood av	Riverroad 24th st Lindley av	32nd st. ft. W. Lindley. 4th st. S. E. 26th st.	1~	Cement.	Circular Egg Oval	590. 2,939.7 1,302.4 581.3	44,541.84 4,105.75
	4th st. S	19th av. S	$\left\{\begin{array}{c} 24 \\ 12 \end{array}\right\}$	Cement.	Egg Oval	68. 160.2 375.7	982.49
	. 22nd av. S		1 100		"	45.	1,140.0%
Riverside av	. 23rd av. S 25th av. S Grant st	27th av. S	18 24 24	Brick	Egg	955.9 1,000.5 584.7	3,006.77 3,728.04 1,820.32
Stevens av 6th av. N	. 24th st Bet, 4th & 5th	15th st. 27th st. 5th st.	24 36	Brick		1,939.6 18.	5,526.17 293.82
	5th st		{ 15 12	Cement.	Oval	18. 584.9 \ 1,020.5	4,634.25
	Oak Lake	Lyndale av	12 15	66	66	164.1	1,366.36
6th av. N 6th av. N	Lyndale av Dupont av	Dupont av Emerson av	12 30	66	Egg	320.2	2,566.62 1,288.96
6th st. S. E	Sth av	Elwood av	24	Brick Cement	Egg Oval	1,007.7 768.2 410.	4,114.44 1,548.51 1,545.70
16th av. S 16th av. S	7th st	9th st	30	66	4.6	906.5	3,426.92 2,622.30
3rd av. S 3rd av. S	l rain into 20th 27th st 29th st Wash'gton av 4th st Lyndale av	29th st	18 30 24	Brick	Oval Egg	63. 1,325.8 1,250.9	248.50 6,032.52 4,522.54 3,795.17 2,634.52
20th av. N 20th av. N	Wash'gton av	31st st. 4th st. Lyndale av.	36 30			803.9 790.9	3,795.17 2,634.52
20th av. N	Emerson av	Emerson av James av $6\frac{1}{2}$ av. S Riverside av.	36 30 24		"	1,583.1	8,552.26 7,238.97 813.04
26th st	34th av. S Riverside av.	Riverside av .	96	66	"	277.8 1,776.9	20 102 44
attu av. S	. Franklin av	20th St.,	30 36	"	"	450.5 2,615.	2,464.36 22,589.83
		27th st	24 72 66		Circular Circular	594.7 2,308. 331.8	2,902.49 23,783.04 3,315.19
with st	. Garneiu av	Lyndale av	. 00		Circurar	0.100	0,010.19





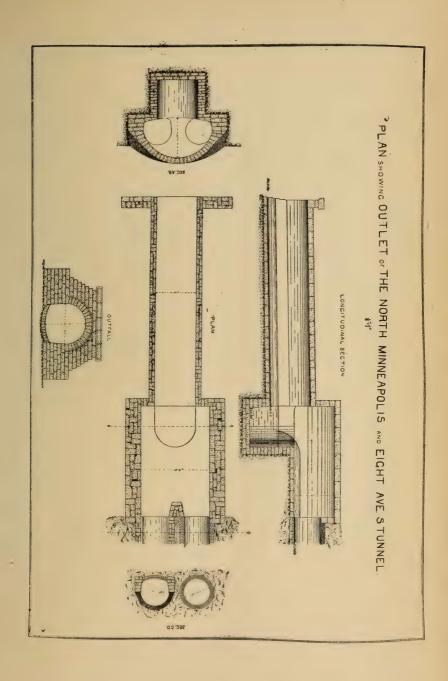




Table No. 10.—Continued.

SEWERS AND SEWER TUNNELS CONSTRUCTED DURING THE SEASON OF 1889.

STREET.	From—	То—	Size in inches.	Kind.	Shape.	Length, feet.	Cost.
Wash. av. N. Western av. Western av. Western av	6th av	4th av	24 12 24 30 24 24 24 36 30	Cement. Brick. Cement Brick. """"""""""""""""""""""""""""""""""""	Egg Oval Egg Oval Egg	60. 288.1 401.5 558.8 736. 1,190. 1,031.4 1,305.4 306.1 10. 750.3 597.2 71,739.6	\$1,434.29 1,241.06 1,104.58 2,779.71 4,271.02 2,979.46 7,951.26 1,588.26 2,722.22 3,083.40

NAME. N. E. Minneapolis sewer tunnel. N. Minneapolis sewer tunnel. S. W. Minneapolis sewer tunnel.	381.5
	9 961 9

Summary of Table No. 10.

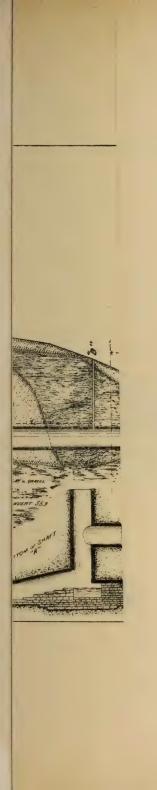
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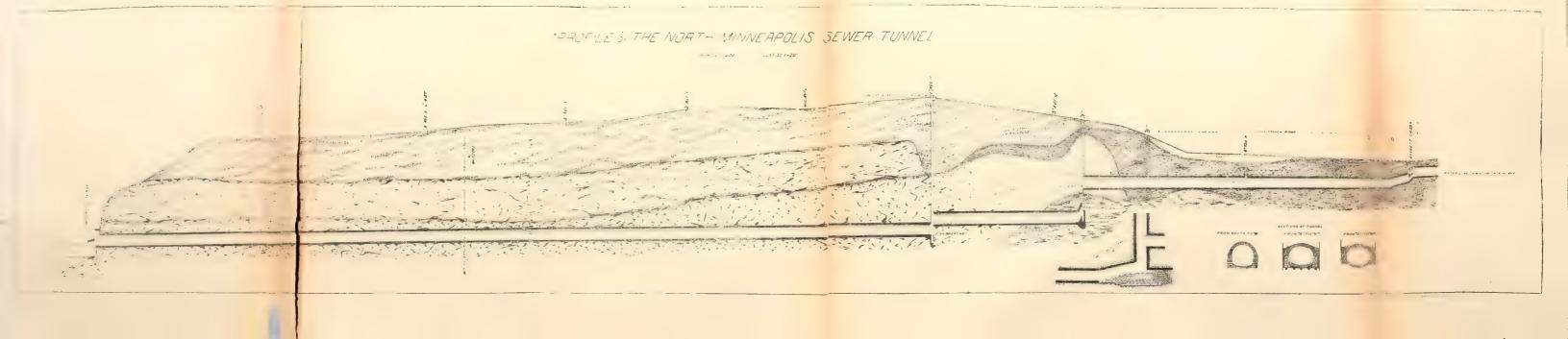
Table No, 11,

SEWERS TO BE CONSTRUCTED IN 1890.

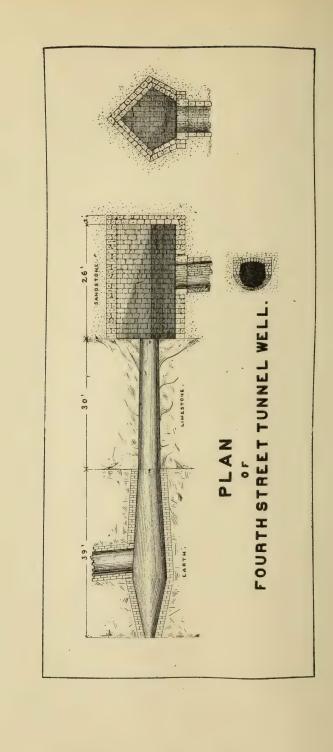
For several years the sewers have been built by day work under the direction of the city engineer. The abutting property is assessed in advance \$1.50 per front foot, regardless of the size of the sewer. This tax is paid in five annual installments.

		_	n.			Estimated length— Feet.		ESTIMAT	ED COST.
STREET.	FROM-	То-	Ī	d.	be.	ma ngt set.		m	Property
			Size-In	Kind.	Shape.	Esti lei Fe		Total.	proport'n.
A 3	441, N. T.	Constant	_					@D (((D ()))	04 800 80
Adams st Bloom'gt'n av	4th av. N. E 24th st	Spring st	24 24	6.6	Egg	755. 5,238.		\$3,663.09 15,985.03	\$1,720.50 13,805.88
Broadway	University	32nd st 5th st. N. E	36	66	66	903.		9,500.28	2,454,48
Chicago av	16th st	Franklin av Lake st	24 30	**		1,666. 1,944.		5,882.06 8,956.22	4,227.86 4,976.83
Clifton place.	Oak Grove st.	Groveland av		Cemnt	Oval	520.		1,307.90	1,053.68
Clifton av	Clifton place.	E. l lt 16, blk 3, Hillside	12	6.	6.6	1,100.		2,763,46	3,316,85
Dupont av	St.P.M.&M.ry	Hillside Erie av 20th av. N 22nd av. N 25th av. N Lyndale av	84	Brick	Circ'l r	1.877.5		31,769.76	2,475.00
Dupont av	Plymouth av.	20th av. N	30	44	Egg	2,574. 809.)	8,483.89	6,397.65
Dupont av	20th av. N 22nd av. N	25th av. N	24		66	1,209.	5	6,872.73	5,094.00
Erie av 8th st. S 8th av. S	Dupont av Nicollet av	Lyndale av 1st av	72 19	Cem nt	Circ'l r Oval	1,308. 352.		12,988.77 $1,064.52$	3,165.00 616.01
8th av. S	4th st	5th st	12	+ 4	6.6	410.		1,107.00	990.00
8th av. S Franklin av	6th st 8th av. S	9th st 11th av. S	12	Brick	Form	1,053.6 1,130.		2,844.72 3,850.40	2,970.00 $2,390.25$
1st av. S	Grant st	15th st	124	6.6	Egg	571.		1,455.66	900.00
1at or C	22nd st	26th st	124		6.	1,906. 646.	1	7,934.61	6,798.76
1st av. S	26th st	27th st 7th av	24	6.6	6.	1,688.	,	10,008.32	4,696.50
4th st. S. E	66ft. w. of 16 av	18th av	12	Cemnt	Oval	916.		1.697.74	2,277.00 2,472.15
5th st. N. E.	18th av 3rd av	Oak st 100ft.n.of 4th a	$\frac{15}{30}$	Brick	Egg	940. 651.		3,989.54 3,977.80	2,472.15 1,470.51
14th av. S	18th st	Franklin av	15	Cem nt	Oval	791.		2,170.28 2,481.67	2,043.63
15th av. S. E Grant st	Como av Willow st	Talmagde av	24 91	Brick	Egg	652. 1,047.		2,481.67 $2,900.11$	1,724.10 2,586.00
Groveland av	Lyndale av	Clifton place. 30th av. N. E.	24		Oval	376.		1,123.66	915.00
Harrison st Harmon place	20th av. N. E. Hennepin av.	30th av. N. E 15th st	30	Brick	Egg	4,852. 918.	,	23,340.00	13,036.24
Harmon place	15th st	14th st	118	Cem nt	Oval	360.	Į	9,835,31	4,479.95
Harmon place	14th st 12th st	12th st	15	Cemnt	66	780. 390.		3,000.01	4,419.90
Harmon place Hennepin av.	Spruce place.	Erie st	24		Egg	1.145.	1		
Hennepin av.	Erie st	Harmon place	30	Brick		347. 412.	-	11,236.81	7,324,53
Hennepin av. Hennepin av.	Harmon place Superior av	Oak Grove st.		66	4.	367.	1	11,200,01	1,029,00
Hennepin av.	Oak Grove st. 8th av. N	Mt. Curve av. 10th av. N	30	6.	44	1,074. 410.	J	1,306.17	888.70
Irving av Lyndale av	27th st	Lake st	24	4.6	66	2,019.	1	10.633.37	6,552,34
Lyndale av	27th st	31st st 26th st	15	Cemnt	Oval	642. 646.	5	10,000.01	U,UUW.DT
Lyndale av Lyndale av	26th st	22nd st	51	Brick	6.6	1,960.			
Lyndale av	22nd st Franklin av	22nd st Franklin av	36	66	4.	663. 630.	1	21,696.50	10,699.77
Lyndale av Lyndale av	Lincoln av	Lincoln av Dell place	24	66	4.	140.	-		
Lyndale av	Erie av	Superior av	54	64	66	798. 1,000.	1	9,175.19	3,971.98
Lyndale av Main st. N. E.	Superior av Broadway st.	Groveland av. 14th av	24			1,207.	1	6,272.92 2,732.70	2,595.15
Gak Grove st. Oak Grove st.	Hennepin av.	Clifton place. E. l. of lt 1, J.S.	24	**	4.6	809.		2,732.70	1,491.90
	Clifton place.	Johnson's sub	15	Cemnt	Oval	540.		1,284.11	1,510.41
Plymouth av. Stevens av	Lyndale av 27th st	Dupont av 29th st	24	Brick	Egg	1,188. 1,330.	1	3,953.59	2,969.52
Stevens av	29th st	32nd st	24	**		1,865.	5	13,532.00	8,076,87
Suponion or	Lyndale av	Hennepin av.	48	Com nt	Ovel	200.		1,470.83	282.84
7th av. N	Cedar av Wash. av	4th st	112	**	6.6	248. 773.		721.83 1,836.91	571.18 1,783.20
6th st. S. 7th av. N. 7th st. S. E. 3rd av. N. E. 3rd av. N. E. 20th av. N.	7th av	8th av 4th st	18	Store o	66	402. 1,225.		1,517.91 18,998.00	894.81 3,029.83
3rd av. N. E	Main st	5th st	72 72	Stone Brick	Egg	410.		6,000.00	742,50
20th av. N	River	5th st Wash. ay	142		**	1,232.		7,844.44	3,013.50
23th st Univ. av. N.E.	32nd av. S 3rd av	34th av. S 7th av	96		Circ'l r Egg	963.1 1,681.		7,961.56 10,036 67	1,980.00 $4,695.75$
Wash. av. N	3rd av 20th av	7th av 22nd av	30	66	1.55	864.	1	8,113.81	6,000.00
Wash. av. N Willow st	22nd av Harmon place	26th av Grant st	24 33			1.614. 990.)	5,137.02	1,193,65
						70,114.4			\$169.822.26
Total						10,114.4	0	0000,410.87	\$109.022.20



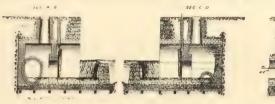


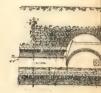






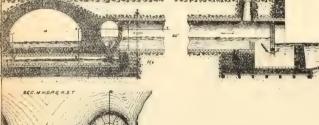
SEWER CROSSING OVERFLOW & FLUSHING G





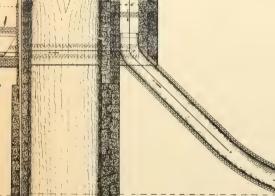


PIAN



TEATBASSETT CREEK AND FIFTH ST. N.





Summary of Table No. 11.

. Kind.	Size, Inches.	Length. Feet.
ement.	12	5.242
"	15	4,589
	18	762
rick	24	32,588
46	30	12,439
66	33 36	990
	36 42	2.886 1.232
	48	200
"	51	1.960
"	54	1,444
rick and stone.		2,943
rick	84	1.877
Brick	96	961.
Total length		70,114
Total length Total miles.		13.3

Table No. 12.

GRADING, STREET CLEANING, STREET REPAIRS AND STREET SPRINKLING. COST OF LABOR, 1889.

This work was all done under the direction of the street commissioner, except the grading of University avenue, S. E., which amounted to \$7,391.36 for the excavation of 58,199 cubic yards of earth.

Ward.	Grading, cleaning and repairs.	Sprinkling.	Total.
First Second Third Fourth Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Eleventh Twelfth Thirteenth	14,588.52 15,660.64 23,478.32 11,207.88 5,930.80 11,544.23 8,619.60 6,886.64 2,724.74 6,888.69 5,752.28	\$3,336.00 4,921.50 5,093.30 12,890.09 12,938.08 4,327.75 1,139.00 7,618.68 1,674.00 603.00 3,635.45	\$6.556.18 19.510.02 20.153.94 36.368.41 24,145.96 10,258.55 12.683.23 16,238.28 8.560.64 3,327.74 10,524.14 5,752.28 3,668.96
Total	\$119,571.48	\$58,176.85	\$177.748.35

Table No. 13.

SIDEWALKS LAID DURING SEASON OF 1889.

The whole cost of sidewalk is assessed to the abutting property. Property owners are allowed to lay their own walks subject to the inspection of this department. Men are employed and paid by the lineal foot to lay all plank waks not laid by the owner. Stone walk laid by the city is laid by contract.

		FIRS	T WAR	D.					
Street.	FROM-	То—	SIDE.	Width-feet.	Length of brick and artificial stone walk built by property owners—feet.	Length of artificial stone walk laid. by city—feet.	Length of plank walk laid by property owners—feet.	Length of plank walk laid by city—feet.	Total length—feet.
Broadway st. Central av. 1st av. N. E. 4th av. N. E. 5th st. N. E. 5th st. N. E. 16th av. N. E. 2d av. N. E. Univ. av. N. E. Univ. av. N. E. Univ. av. N. E. Total	2d st. N. E. Main st 2d st. Main st 1st av 3d av Marshall st. 2d st. Central av 6th av. 12th av.	Univ. av. N.E. River Sth st. 5th st. 2d av. 4th av. Grand st. University av 1st av. 7th av. Broadway st.	North. North. Both. Both. West. West. North. Both. Both. Both. Both.	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	55 1,438 2,086 80 212 354 66 144	87		105 273 160 538	105 55 1,438 2,086 80 299 273 354 66 144 160
		SECO	ND WAI	RI),				
7th st. S. E 16th av. S. E 16th av. S. E 3d av. S. E 10th av. S. E 13th av. S. E Univ. av. S. E. Univ. av. S. E.	Harvard st. Division st. 1st av. 3d av. 8th av. 7th av. 11th av. 12th av. R. R. 6th st. 14th av. S. E.	Oak st Winter st. 2d av. 4th av. 9th av. 8th av. 12th av. 13th av. 16th av. 16th av. S. E. 8th st. 16th av. 15th av. 15th av. 15th st. 15th st. 16th av. 16t	South. East North. North. North. North. South. South. South. West South. West North. North. Both East West East North.	666666666666666666666666666666666666666	317 296 218 251 301 853 2,453 370 178	189		519 350 482 142 317 229	835 537 317 362 218 218 351 351 350 519 350 562 142 213 317 2453 370 178 *299 *292 1,496
		THIE	RD WAI	RD					
8th av. N 8th av. N 8th av. N 11th av. N 11th av. N 18th av. N	Piymouth av. 14th av. N. 18th av. N. 7th av. N. 7th av. N. 18th av. N. Wash. av. Newton av. 18th av. N. Wash. av. Bradford av. Girard av. Lyndale av. Dupont av. Emerson av. Aldrich av. 11th av. N.	3d st, Lyndale av Elwood av Bryant av Emerson av Fremont av Bryant av	East Both South North Both	6 6 6	45	155		573 169 145 213 753 1,213 600 471 	614 169 145 213 753 1,213 650 471 200 242 313 229 161 655 390 1,776

Table No. 13—Continued.

THIRD WARD.

STREET.	FROM-	то—	SIDE.	Width-feet.	Length of brick and artificial stone walk built by property owners—feet.	Length of artificial stone walk laid by city—feet.	Length of plank walk laid by property owners—feet.	Length of plank walk laid by city-feet.	Total length—feet.
Ist st. 5th st. 5th st. 14th av. N. 15th av. N. Girard av. Irving av. Logan av. Logan av. Logan av. Plymouth av. Plymouth av. Plymouth av. 6th av. N. 7th av. N. 7th av. N. 12th av. N. 12th av. N. 12th av. N. 22nd av. N. 23rd av. N. 24th av. N. 24th av. N. 24th av. N. Wash. av. Wash. av. Wash. av. Wash. av.	4th st 6th st Wash. av	Dupont av ½ way to 10th av. N 21st av. N 10th av. N Hilliside av. Bassett's Cr'k Wash. av. 3d st 5th st Lyndale av 3d st Lyndale av 6th st Oak Lake av	North. South Both North. Both North. South	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	52 289 281 682 67 55 54 65		27 431 161 267 459 280 455 100 175 853 604	292 414 100 216 498 467 330 99 1,201 1,169 785 325 154 904 144 670 676 515 1,453	202 414 127 647 659 734 330 99 1,201 254 1,628 280 281 280 281 280 281 1,301 325 154 904 244 175 494 670 676 1,368 2,057 555 54 649
Total					1,616	155	5,549	18,034	25,354

FOURTH WARD.

Aldrich av Laurel av Hawth'rne av West 6	150	150
Aldrich av. 6th av. N. Western av. Both 6 481		481
Bryant av Laurel av Hawthorn av East 6	300	300
Bryant av 4th av. N 6th av. N Both 6		165
8th st Hennepin av. 1st av. N East 6 183		183
11th st Mary place Nicollet av North. 6 50		50
		400
Franklin av Vine place Pleasant av North. 8	744	844
Fremont av. 5th av. N 6th av. N Both 6 607	415	1.022
1st av. N 11th st 12th st North. 6 100		100
1st av. S 10th st West 8 171		171
		303
4th av. N Girard av Knox av Both 6 1,032	532	1,564
4th av. N Newton av Penn av North. 6	444	444
5th av. N Girard av James av South 6 129	605	734
5th av. N Knox av Newton av Both 6	1,203	1,504
14th st. Nicollet av. Vine place. 6 168 15th st. Hennepin av. Howth'rn av. 6 113 15th st. Spruce place. Nicollet av. 6 150	81	249
15th st Hennepin av. Howth'rn av. " 6 113		113
15th st. N Spruce place. Nicollet av " 6		150
Grant st Nicollet av 1st av. S North. 6 61		61
	4.48	90
Grant st Spruce place. Willow st South. 6	147	214
Harmon pl'ce Spruce place. Willow st. South 6 103	199	199 103
The state of the s		207
Hawthorn av 13th st 12th st " 6 207		209
Hawthorn av 18th st 18th st 6 150 59 17th st North. 6 109		109
		116
		44
Hennepin 15th st. Harmon Pl. Both 6 1,352		1,352
Hennepin Spruce Place. 15th st Nor'ly, 6 191		191
Temperature Frace Frace From St		1;71

Table No. 13—Continued. FOURTH WARD.

Street.	FROM—	Т0	SIDE.	Width-feet.	Length of brick and artificial stone walk built by property owners—feet.	Length of artificial stone walk laid by city—feet.	Length of plank walk laid by property owners—feet.	Length of plank walk laid by city—feet.	Total length-feet.
	Laurel av. Groveland av 9th st	Royalston av. 16th st. 15th st. Lyndale av. Ontario av. Franklin av. 10th st. Grant st. Oak Grove Groveland av Hennepin av. 6th av. N. Franklin av. Aldrich av. Aldrich av. Aldrich av. Aldrich av. Chestnut av. Aldrich av. Aldrich av. Aldrich av. Cloffax av.	Both North Both West Both West Both West Both Both Both Both Both East Both East Both East Both Bo	66 66 66 66 66 66 66 66 66 66 66 66 66	164 660 100 173 78 1,106 642 169 304 311 608 206 308 426 1,501	226	50 646 56 118 158 268 826	509 557 1,127 720	1,716 164 660 100 357 509 50 646 646 6229 557 78 118 1,332 1,127 426 304 311 720 608 826 304 311 727 608 826 308 4,501 364 608 608 608 608 608 608 608 608 608 608
Total					12,088	491	6,090	8,647	27,316

FIFTHWARD.

Chicago av 10th st 17th st B	$80th \pm 8$	31		178	79	257
	Both 6			1.027	528	1,555
8th av. S 3rd st 4th st W	Vest 8	339				339
	last 8			804	358	1.162
	outh. 8	370				370
8th st. S 3rd av 5th av N	North. 8	346				346
8th st. S 6th av 7th av B	Both 8	283				283
8th st. S 7th av 9th av B	30th 8	369				369
8th st, S 9th av 10th av N	North. 8	152				152
11th st S 3rd av 4th av N	North. 8	110			167	277
18th st Clinton av 4th av B	Both 6			139		139
18th st Portland av. Park av Se	outh. 6				206	206
18th st Park av Chicago av N	North. 6				398	398
Franklin av., Clinton av., 4th av. S., B	Both 6			246		246
Franklin av., 5th av. S Portland av., N	North. 6	5			251	251
Franklin av. Portland av. Park av. B				715	424	1,139
1st av. S 9th st 10th st E	Last 8	193				193
1st av. S 13th st Grant st E	Cast 8	3			97	97
1st av. S 15th st 16th st W	Vest 6	3		159		159
1st av. S 16th st 18th st W				104	333	437
4th av. S 4th st 5th st E						293
4th av. S 5th st 7th 3t B	Both 8					359
4th av. S 7th st 8th st B	Both 8					642
4th av. S 10th st 24th st B	Both 6			538	338	1,220
4th st. S 8th av 10th av Se	outh. 8			80	270	350
4th st. S 8th av 10th av N						179
	Vest 8					170
	East 8					362
	Cast 8		55			177
5th av. S Grant st 14th st W	Vest 6	53		202		255
5th av. S 17th st 18th st B	Both 6	3 12		102	253	367

Table No. 13—Continued. FIFTH WARD.

		1			Length of brick and artificial stone walk built by property owners—feet.	Z 2	× 5	74	
					t all	sial by	tal t	ral.	
		•			e €	artificia]	Length of plank walk laid by property owners—feet.	Length of plank walk laid by city—feet.	b t
					beek.	age	Yd.	f.k	Total length—feet
					et cori	8	eto	l an	Ī
STREET.	FROM-	To-	SIDE.	Width-feet.	est co	Length of an stone walk leity—feet.	pl	at.	=
				e	l al	Na Na Na Na	£ 1	e_f	90
				ľ	rs of s	7	o o) y	eı
				=	e t E	tt.	th me	##	=
				dt	rt ui	it	a ic	20.00	E E
				Vi	0 0 m	9 8 5	0 H.	E-è-	<u>_</u> 0
5th av. S	18th st	19th st	East	6			35	383	418
5th av. S	Franklin av	22nd st	Both	6			168	432	600
5th st S	2nd av	22nd st 5th av	Both	8					963
5th st. S 5th st. S	6th av	7th av.	North.	886	179				179
5th st. S	8th a v	10th av	Doth.	8			108	301	409
14th st	8th a v	10th av Stevens av 4th av. S	Both	6	63 136				63
14th st	4th av S	Portland av	Doin	6			133		136 399
14th st 15th st 15th st	Nicollet av	1st av. S	Both	6			160		160
15th st	Clinton av	1st av. S 5th av. S 9th av. S	North.	6	130		140	134	404
	Portland av	9th av. S		6	100		1,347	52	1,499
Nicollet av	Grant st	17th st	East	8			131	362	493
Nicollet av	Grant st Franklin av 1st av 3rd av 6th av 15th st	24th st	East	8				1,147	1,147
9th st. S 9th st. S	1st av	3rd av	Both	8	769				769
9th st. S 9th st. S	ord av	oth av	Both	8	689 265				689
Park av	15th et	16th et	South. West	8 8	975				265 275
Park av	19th st	Franklin av	West	8	275 224				224
Portland av	10th et	Franklin av.	East	8	159				159
Stevens av	Grant st	Franklin av 14th st	Both	6				158	158
Stevens av	17th st	19th st	East	6				334	334
Stevens av	Franklin av	22nd st	East	6	607			257	257
Stevens av 2nd av, S 2nd av. S	Grant st 17th st Franklin av 8th st	19th st	Both	8					601
and av. S	9th st	10th st	East	8	177			32	177 32
2nd av S	14th st	16th at		6				273	273
6th av. S	15th st	6th st		15	172			210	172
6th av. S. 6th av. S.	6th st	7th st	West	8	210				210
6th av. S	8th st	9th st	West	8	177				177
6th av. S	9th st	10th st	Both	8	177 150				150
6th st	2nd av	3rd av		8	362				362 1,527
				8	1,527				1,527
6th st	8th av	9th av	South.	8			132 55	210	342
6th st	6th et	Sth et	Both	8	705		99		55 705
7th av. S	8th st	9th st	East	8	90				90
7th st. S	4th av	7th av	North.	8	266				266
7th st. S	7th av	8th av	Poth	8	708				708
7th st. S	8th av	9th av	North.	8	210			148	148
7th st. S	8th av	10th av	Both	8	210		142		210
	Nicollet av	9th av 10th av 1st av. S 3rd av. S 4th av. S	Both	6					142
16th st	Clinton av	ard av. S	North.	6	270		136		136 270
	Clinton av 5th av. S	Portland av.	Both North.	6	210		133		133
16th st	Chicago av		South.	6			146	215 133	361
17th st	4th av. S	Portland av 6th st	South	6			136	133	269
3rd av. S	5th st	6th st		8	349	55			349
3d av. S	6th st	7th st	West	8	177				177
3d av. S	7th st	8th st	T	8	189 177				189
3d av. S	9th st	10th st	East	8	177				177
3d av. S	Grant st	12th St	Both .	15	48 637		1,144	590	2,371
3d av. S	99d st	94th st	East.	6			174		174
10th av. S	22d st	5th st.	North	8			121		121
10th av. S	5th st	7th st	West	8			185		185
10th st. S	3d av	4th av	South.	8	122				122
10th st. S	7th av	Chicago av	North.	8	316			110	316
12th St. S	1st av	22d st 22d st 5th st 7th st 4th av Chicago av 2d av	Both	8			193	110	303
13th st. S	2d av	3d av	South	80				110	110
22d st	4th ov	5th ov 9		8			129	61	61 129
22d st	1st av 4th av. S Park av 4th av. S	Chicago av	Both	6			568		568
24th st	4th av. S.	Portland av	North.	6				272	272
Total					16,556	55	9.910	9,416	35,937

Table No. 13—Continued. SIXTH WARD.

STREET.	From—	То-	SIDE.	Width-feet.	Length of brick and artificial stone waik built by property owners—feet.	Length of artificial stone walk laid by city—feet.	Length of plank walk laid by property owners—feet.	Length of plank walk laid by city—feet.	Total length—feet.
Cedar av Cedar av Cedar av	1st st	2d st	Both West	6 8 14			507 107 175	177 75 130	684 182 305
Cedar av	Wash. av	212 st	Both	8			78 72		78
11th av. S	Wash. av	3d st	East	8	100		72	172	344
11th av. S	4th st	oth st	Both	80			172	514	686
1st st. S	Cedar av 19th av 10th av	6th st. 19th av. 20th av.	North. Both	8			69 178	56	69 234
4th st. S	10th av	11th av	Month	8	212		110		212
4th st. S 4th st. S	10th av	12th av	South	8				245	245
4th st. S	12th av	13th av	Both	8				55	55
4th st. S	15th av	16th av	NT	80				220	220
4th st. S	10th av	Cedar av	North. Both	8			69 332	107	1,439
5th st. S	19th av	Riverside av.	South.	8			126	-	126
14th av. S	1st st	7th st	Both	8			179	674	853
14th av. S 15th av. S	3d st	5th st	**	8			488	33 179	521 179
15th av. S	6th st	7th st	West	8			1,155	179	179
19th av. S 19th av. S	Bluff st 6th st	5th st	Both	10			1,100	566	1,721 171
Riverside av.	Cedaray	7th st	East Both	14	135		171 376	156	532
2d st. S	Cedarav	11th av	Both	115	135				138
2d st. S	Cedarav	19th av	North. Both	8	,		55	55	110
2d st. S	20th av	21st av	Both	. 8			96	254	350
2d st. 8 6th st. 8	21st av	22d av	South.	. 8				133	133
	Cedar av	12th av	Both	0 0			234 175		175
7th st. S 7th st. S 16th av. S	15th av	Cedarav	North.	888			55		175 55
16th av. S	Cedarav	6th st	Both	8			304		304
212 st	Cedarav	19th av	North.	. 8	292			132	132
212 st	10th av	llth av	North North North	8	292		66	292	292 358
3d et	13th av	14th av	Both	8			135	375	510
3d st	19th av	20th av	South.				171		171
10th av. S	13th av. 19th av. Wash. av. 4th st.	3d st	East	. 8	171		96		171 171
10th av. S	4th st	7th st. Wash. av 7th st. 7th st. 2d st.	East	8			96	503	599
		Wash. av	West	. 80	116		391	175	175 1,180
12th av. S 13th av. S 20th av. S	1st st	7th st	Both	20222	110		197	673 201	398
20th av. S	Wash, au	2d st	Both	8			257	117	374
20th av. S	Riverside av .	3d st	East	18			215	80	295
20th av. S 21st av. S	Riverside av .	7th st	Both	. 8			137		137
21st av. S	wasn. av	R. R. briage	West				182	555 234	737 358
22d av S	Wash. av 2d st 4th st	3d st. 7th st. R. R. bridge. 21/2 st. 5th st.	Both .	8			124 355	315	670
22d av. S 22d av. S	5th st. 10th av. 12th av. 13th av.	6th st. 12th av. 13th av. 14th av.	East	. 8			154	259	413
Wash. av. S	10th av	12th av	South.	. 18					216
Wash, av. S	12th av	13th av	South.	. 18			159	247	132 505
Wash. av. S Wash. av. S Wash. av. S Wash. av. S	15th av	15th av	Both North.	18	99 142		199	66	208
Wash. av. S	14th av Cedarav 19th av 21st av	19th av	South.	. 8			147		147
Wash. av. S Wash. av. S	19th av	19th av. 20th av. 22d av.	North.	. 8			55	116	171
Wash. av. S	21st av	22d av	South.	. 6	170			180	350
Total					1,788		8,014	9,321	19,123
, Totai	1		TH W			1	1 0,011	0,000	10,110
(1 - 3	107414							101	401
Cedaray	27th st 29th st	29th st	East West	80				278	461 278
Cedarav Lake st 7th av. S 7th av. S			North.	8 8				278 83	83
7th av. S	25th st	29th st	East	. 6				1,753	1,753
7th av. S	26th st	27th st	West.	. 6				169	169
7th av. 8	29th st	Lake st	Both					782 495	782 495
24th st	12th av S	13th av S	South.					136	136
28th st	25th st. 26th st. 29th st. 9th av. S. 12th av. S. Chicago av.	12th av. S.	Both	. 8	1			209	209
39th av. S	Chicago av 24th st	25th st	East					101	101
								4,467	4,477
Total						1		4,407	4,411

Table No. 13—Continued. EIGHTH WARD.

STREET.	From—	то—	Side.	Width-feet.	Length of brick and artificial stone walk built by property owners—feet.	Length of artificial stone walk laid by city—feet.	Length of plank walk laid by property owners—feet.	Length of plank walk laid by city—feet.	Total length—feet.
Aldrich av Colfax av Garfield av Harriet Hennepin av. Lake st Lindley av Motor av Nicollet av Pleasant av. Pleasant av. 2nd av. S 3rd av. S 28th st 28th st	24th st. Lake st. Lake st. Lake st. Lake st. Lake st. Stevens av. 6½ av. S. 26th st. 28th st. Lake st. Lake st. 22nd st. 22nd st. 25th st. 25th st. Clinton av. Lyndale av. 3rd av. S.	26th st. 31st st. 31st st. 34th st. 2nd av. S. Park av. 28th st. 32nd st. 31st st.	Both West South South North. Both " " Both West " " Both North. Both North.	88	296 360 129 127		778 462 80 104 38 397 130 40 348	385 1,064 487 421 2,181 213 258 1,012 2,260 968 538 538 286 800 76 	1.163 1.698 567 525 2.515 2.58 1.769 40 1.316 538 286 892 76 120 2.106
Total			l	١	1,084	1	2,891	13,313	17,288
		NINT	H WAI	RD					
Central av. Division st. E. st	Van Buren st 6th st	Jackson st. 7th st Tuttle st. Winter st. Broadway st. Harrison st. 1st av. 4th av. Madison st. Monroe st. 24th av. N. E. 20th av. N. E. 19th av. N. E. Van Buren st. Taylor st.	Both Both West Both West North		258 5 6 6 6 6 6 6 6 6 6		857 250 423 350 108 138 612 1,778 3,771	283 500 1,705 1,401 572 2,178 32 983 254 132 282 470 1,820 1,820 1,180	132 258 283 500 1,705 2,252 250 423 572 2,178 32 270 282 210,828 855 4,951
Total				. .	. 258		. 8,413	12,647	21,318
7th st. S	26th av 10th av. S 17th av. S 25th av 7th st Franklin av Franklin av Cedar av 7th st 24th av. S 8th st Riverside av	2tth av. 8th st. 24th st. 24th st. Bloom'ton av. Riverside av. 29th av. S. 24th st.	Both . Both . South . Both . North . Both .	1		104	184 164 1,168 522 1,574 704 69	254 3,131 444 1,833 1,141 519 882 1,924 1,110 320	358 5,396 75 609 342 802 2,017 1,305 1,687 154 1,404 3,498 1,814 389
		TWFI	FTH W	A	RD				
	. 34th av. S	. 42nd av. S				2,475		2,359	4,834

Summary of Table No. 13.

WARD.	Length of brick and a rtificial stone walk built by property owners—feet.	Length of artificial stone walk laid by city—feet.	Length of plank walk laid by prop- erty owners—feet.	Length of plank laid by city—feet.	Total length—feet.
First Second Third Fourth Fifth Sixth Seventh Eighth Ninth Eleventh Third Fighth Ninth Fighth Twelftth	4,435 5,237 1,616 12,088 16,556 1,788 1,084 258 1,040	87 816 155 491 55	1,592 5,549 6,090 9,910 8,014 2,891 8,413 6,994	538 3,759 18,034 8,647 9,416 9,321 4,477 13,313 12,647 11,712 2,359	5,060 11,404 25,354 27,316 35,937 19,123 4,477 17,288 21,318 19,850 4,834
Total	44.102	4,183	49,453	94,223	*191,961

^{*35,356} miles.

Table No. 14.

SIDEWALKS ORDERED FOR 1890.

N. B.-A. S. Indicates Artificial Stone. FIRST WARD.

1st av N. E. Main st. 2d st. A. S. Both 6 684 1st av N. E. University av 4th st. A. S. South 6 354 1st av N. E. University av 4th st. A. S. South 6 354 1st av N. E. University av 4th st. A. S. South 6 354 1st av N. E. University av 4th st. A. S. South 6 354 1st av N. E. University av 4th st. A. S. South 6 2425 1st av N. E. Broadway st. Bish av Plank West 6 2425 1st av N. E. Main st. 2d st. A. S. Both 6 120 1st av N. E. Main st. 2d st. A. S. Both 6 273 1st av N. E. Main st. 2d st. A. S. Both 6 273 1st av N. E. Main st. 4y st. Plank West 12 1,682 1st av N. E. Bish av Bish av A. S. Both 6 4,764 1st av N. E. Bish av Bish av A. S. Both 6 4,764 1st av N. E. Bish av Bish av A. S. Both 6 4,764 1st av N. E. Broadway st. Bish av A. S. Both 6 4,764 1st av N. E. Broadway st. Bish av Bish B	\$574.5
SECOND WARD. Como av	
SECOND WARD. Como av	297.3
SECOND WARD. Como av	300.7 609.0
SECOND WARD. Como av	679.9
SECOND WARD. Como av	108.3 588.6
SECOND WARD. 12th av. S. E. 13th av. S. E. A. S. North 6 277.	1,920.6
SECOND WARD. 12th av. S. E. 13th av. S. E. A. S. North 6 277.	765.8 2,355.7
SECOND WARD. Como av	1.188.6
SECOND WARD. Como av	1,612.6
SECOND WARD. Como av	3,835.7
SECOND WARD. Como av	313.4 1,804.3
SECOND WARD. Como av	1,014.1 231.8
SECOND WARD. 12th av. S. E. 13th av. S. E. A. S. North 6 277.	2,887.0
SECOND WARD. 12th av. S. E. 13th av. S. E. A. S. North 6 277.	751.4
SECOND WARD. Como av	300.7 188.7
SECOND WARD. Como av	345.5
SECOND WARD. Como av	2,472.1
SECOND WARD. Como av	195.4
Como av 12th av. S. E 13th av. S. E A. S. North 6 277. Como av Tuttle st 16th av. S. E A. S. " 6 277. Como av 10th av. S. E 12th av. S. E A. S. " 6 566. Como av 13th av. S. E 14th av. S. E A. S. " 6 283. Division st. 5th av. S. E 10th av. S. E A. S. " 6 283. 8th st. S. E 2d av. 3d av. Plank. North 6 284. 8th st. S. E 10th av. 14th av. Plank. North 6 386. 38. 8th st. S. E 13th av. 14th av. Plank. North 6 388. 38. 11th av. Plank. North 6 388. 38. 11th av. Plank. North 6 388. 38. 11th av. Plank. North 6 382. 38. 11th av. A. S. West. 6	\$25,342.6
Como av Tuttle st. 16th av. S. E. A. S. 6 277. Como av 10th av. S. E. 12th av. S. E. A. S. 6 566. Como av 13th av. S. E. 14th av. S. E. A. S. 6 283. Division st. 5th av. S. E. 10th av. S. E. A. S. 6 1,141.1 Division st. 7tttlest Oak st. A. S. 6 284. 8th st. S. E. 12d av. 3d av. Plank North 6 284. 8th st. S. E. 13th av. 14th av. Plank North 6 358.3 8th st. S. E. 13th av. 14th av. Plank 6 1.843.7 8th st. S. E. 15th av. 16th av. Plank 6 358.3 11th av. S. E. Como av. Division st. A. S. West. 6 1.223.4 4th st. S. E. 5th av. 7th av. A. S. South 6 364. 4th st. S. E. 6th av. 7th av.	999 (
Division st. 5th av. S. E. 14th av. S. E. A. S. South 6 547.2	232, 6 232, 6
Division st. 5th av. S. E. 14th av. S. E. A. S. South 6 547.2	475.4
4th st, S. E. 6th av. 7th av. A. S. North. 6 86. 4th st, S. E. 13th av. 14th av. A. S. North. 6 212. 5th st, S. E. 3rd av. 4th av. A. S. East. 6 218. 5th st, S. E. 10th av. 11th av. A. S. East. 6 56. 5th st, S. E. 13th av. 14th av. A. S. North. 6 212. 4th av. S. E. Como av. Talmage av. A. S. East. 6 405.4 14th av. S. E. Como av. Talmage av. A. S. Both. 6 1,085.2 14th av. S. E. Como av. Division st. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 1,799.6 15th av. S. E. 8th st. Rollins av. A. S.	237.7 958.5
4th st, S. E. 6th av. 7th av. A. S. North. 6 86. 4th st, S. E. 13th av. 14th av. A. S. North. 6 212. 5th st, S. E. 3rd av. 4th av. A. S. East. 6 218. 5th st, S. E. 10th av. 11th av. A. S. East. 6 56. 5th st, S. E. 13th av. 14th av. A. S. North. 6 212. 4th av. S. E. Como av. Talmage av. A. S. East. 6 405.4 14th av. S. E. Como av. Talmage av. A. S. Both. 6 1,085.2 14th av. S. E. Como av. Division st. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 1,799.6 15th av. S. E. 8th st. Rollins av. A. S.	459.6
4th st. S. E. 6th av. 7th av. A. S. North. 6 86. 4th st. S. E. 13th av. 14th av. A. S. North. 6 212. 5th st. S. E. 3rd av. 4th av. A. S. East. 6 218. 5th st. S. E. 10th av. 11th av. A. S. East. 6 56. 5th st. S. E. 13th av. 14th av. A. S. North. 6 212. 4th av. S. E. Como av. Talmage av. A. S. East. 6 405.4 14th av. S. E. Como av. Talmage av. A. S. Both. 6 1,085.2 14th av. S. E. Como av. Division st. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 426. 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 1,25.5 Mississippi st. Lenox st. Frank. av. bdg. Plank. West. 6 1,25.5 Mississippi st. Central a	79.5
4th st. S. E. 6th av. 7th av. A. S. North. 6 86. 4th st. S. E. 13th av. 14th av. A. S. North. 6 212. 5th st. S. E. 3rd av. 4th av. A. S. East. 6 218. 5th st. S. E. 10th av. 11th av. A. S. East. 6 56. 5th st. S. E. 13th av. 14th av. A. S. North. 6 212. 4th av. S. E. Como av. Talmage av. A. S. East. 6 405.4 14th av. S. E. Como av. Talmage av. A. S. Both. 6 1,085.2 14th av. S. E. Como av. Division st. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 426. 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 1,25.5 Mississippi st. Lenox st. Frank. av. bdg. Plank. West. 6 1,25.5 Mississippi st. Central a	516.1 100.3
4th st, S. E. 6th av. 7th av. A. S. North. 6 86. 4th st, S. E. 13th av. 14th av. A. S. North. 6 212. 5th st, S. E. 3rd av. 4th av. A. S. East. 6 218. 5th st, S. E. 10th av. 11th av. A. S. East. 6 56. 5th st, S. E. 13th av. 14th av. A. S. North. 6 212. 4th av. S. E. Como av. Talmage av. A. S. East. 6 405.4 14th av. S. E. Como av. Talmage av. A. S. Both. 6 1,085.2 14th av. S. E. Como av. Division st. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 1,799.6 15th av. S. E. 8th st. Rollins av. A. S.	100.9
4th st, S. E. 6th av. 7th av. A. S. North. 6 86. 4th st, S. E. 13th av. 14th av. A. S. North. 6 212. 5th st, S. E. 3rd av. 4th av. A. S. East. 6 218. 5th st, S. E. 10th av. 11th av. A. S. East. 6 56. 5th st, S. E. 13th av. 14th av. A. S. North. 6 212. 4th av. S. E. Como av. Talmage av. A. S. East. 6 405.4 14th av. S. E. Como av. Talmage av. A. S. Both. 6 1,085.2 14th av. S. E. Como av. Division st. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 1,799.6 15th av. S. E. 8th st. Rollins av. A. S.	394.9 1,027.6 508.7
4th st, S. E. 6th av. 7th av. A. S. North. 6 86. 4th st, S. E. 13th av. 14th av. A. S. North. 6 212. 5th st, S. E. 3rd av. 4th av. A. S. East. 6 218. 5th st, S. E. 10th av. 11th av. A. S. East. 6 56. 5th st, S. E. 13th av. 14th av. A. S. North. 6 212. 4th av. S. E. Como av. Talmage av. A. S. East. 6 405.4 14th av. S. E. Como av. Talmage av. A. S. Both. 6 1,085.2 14th av. S. E. Como av. Division st. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 483.5 15th av. S. E. 8th st. Rollins av. A. S. Both. 6 1,799.6 15th av. S. E. 8th st. Rollins av. A. S.	508.
14th av. S. E. Como av Talmage av A. S. East 6 405.4 14th av. S. E. 7th st St. P. M. & M. Ry. A. S. Both 6 1,085.2 14th av. S. E. Como av Talmage av A. S. Both 6 483.5 15th av. S. E. Como av Division st A. S. Both 6 1,079.6 15th av. S. E. St. St. St Rollins av A. S. Both 6 266. Lenox st Railroad Mississippi st Plank. West 6 402.5 Mississippi st Lenox st Frank. av. bdg Plank. West 6 402.5 Oak st Como av Division st A. S. East 6 395. Prince st Central av Bank st A. S. East 6 395. St. Marys av University av Lenox st Plank West 6 1,387.5 7th st. S. E I5th av 16th av Plank North 6 212. 7th st. S. E 15th av 19th av Plank North 6 <td>305.7</td>	305.7
14th av. S. E. Como av Talmage av A. S. East 6 405.4 14th av. S. E. 7th st St. P. M. & M. Ry. A. S. Both 6 1,085.2 14th av. S. E. Como av Talmage av A. S. Both 6 483.5 15th av. S. E. Como av Division st A. S. Both 6 1,079.6 15th av. S. E. St. St. St Rollins av A. S. Both 6 266. Lenox st Railroad Mississippi st Plank. West 6 402.5 Mississippi st Lenox st Frank. av. bdg Plank. West 6 402.5 Oak st Como av Division st A. S. East 6 395. Prince st Central av Bank st A. S. East 6 395. St. Marys av University av Lenox st Plank West 6 1,387.5 7th st. S. E I5th av 16th av Plank North 6 212. 7th st. S. E 15th av 19th av Plank North 6 <td>72.5 178.6</td>	72.5 178.6
14th av. S. E. Como av Talmage av A. S. East 6 405.4 14th av. S. E. 7th st St. P. M. & M. Ry. A. S. Both 6 1,085.2 14th av. S. E. Como av Talmage av A. S. Both 6 483.5 15th av. S. E. Como av Division st A. S. Both 6 1,079.6 15th av. S. E. St. St. St Rollins av A. S. Both 6 266. Lenox st Railroad Mississippi st Plank. West 6 402.5 Mississippi st Lenox st Frank. av. bdg Plank. West 6 402.5 Oak st Como av Division st A. S. East 6 395. Prince st Central av Bank st A. S. East 6 395. St. Marys av University av Lenox st Plank West 6 1,387.5 7th st. S. E I5th av 16th av Plank North 6 212. 7th st. S. E 15th av 19th av Plank North 6 <td>183.</td>	183.
14th av. S. E. Como av Talmage av A. S. East 6 405.4 14th av. S. E. 7th st St. P. M. & M. Ry. A. S. Both 6 1,085.2 14th av. S. E. Como av Talmage av A. S. Both 6 483.5 15th av. S. E. Como av Division st A. S. Both 6 1,079.6 15th av. S. E. St. St. St Rollins av A. S. Both 6 266. Lenox st Railroad Mississippi st Plank. West 6 402.5 Mississippi st Lenox st Frank. av. bdg Plank. West 6 402.5 Oak st Como av Division st A. S. East 6 395. Prince st Central av Bank st A. S. East 6 395. St. Marys av University av Lenox st Plank West 6 1,387.5 7th st. S. E I5th av 16th av Plank North 6 212. 7th st. S. E 15th av 19th av Plank North 6 <td>47.0</td>	47.0
Lenox st.	305.1 176.0
Lenox st.	340.
Lenox st.	911.
Lenox st.	406. 1,662.
7th st. S. E. Central av. 3rd av. Plank North 6 212. 7th st. S. E. 15th av. 16th av. Plank North 6 313. 7th st. S. E. 16th av. 19th av. Plank North 6 619. 6th av. S. E. 8th st. Railroad Plank East. 6 859.7	223.
7th st. S. E. Central av. 3rd av. Plank North 6 212. 7th st. S. E. 15th av. 16th av. Plank North 6 313. 7th st. S. E. 16th av. 19th av. Plank North 6 619. 6th av. S. E. 8th st. Railroad Plank East. 6 859.7	315.
7th st. S. E. Central av. 3rd av. Plank North 6 212. 7th st. S. E. 15th av. 16th av. Plank North 6 313. 7th st. S. E. 16th av. 19th av. Plank North 6 619. 6th av. S. E. 8th st. Railroad Plank East. 6 859.7	112. 271.
7th st. S. E. Central av. 3rd av. Plank North 6 212. 7th st. S. E. 15th av. 16th av. Plank North 6 313. 7th st. S. E. 16th av. 19th av. Plank North 6 619. 6th av. S. E. 8th st. Railroad Plank East. 6 859.7	
7th st. S. E. 15th av 16th av Plank North 6 313 15th st. S. E. 16th av 19th av Plank North 6 619 6th av S. E. 8th st. Railroad Plank East 6 859.7 6th st. S. E. 11th av 12th av A. S. South 6 60.8	331.
7th st. S. E. 16th av. 19th av. Plank North 6 619. 6th av. S. E. 8th st. Railroad Plank East. 6 859.7 6th st. S. E. 11th av. 12th av. A. S. South 6	331. 388.
6th av. S. E 8th st Railroad Plank. East 6 859.7 6th st. S. E 11th av 12th av A. S. South 6 50.8	331. 388. 59.
	331. 388. 59. 87. 173.
16th av. S. E 6th st	331. 388. 59. 87. 173. 240.
Talmage av 11th av. S. E 12th av. S. E A. S South 6 276.8	331. 388. 59. 87. 173. 240. 59. 238.
Talmage av Tuttle st Oak st A. S Both 6 1,083.2 Talmage av 12th av. S. E 13th av. S. E A. S South 6 276.8	331. 388. 59. 87. 173. 240. 59. 238. 232.
Talmage av 12th av. S. E 13th av. S. E A. S South 6 276.8 Talmage av 14th av. S. E 15th av. S. E A. S Both 6 553.6	331. 388. 59. 87. 173. 240. 59. 238. 232. 909.
Talmage av 15th av. S. E Tuttlest., A. S South 6 282.8	331 388. 59. 87. 173. 240. 59. 238. 232. 909. 232. 465.
Tuttle st Como av Division st A. S Both 6 2,386,2 3rd av. S. E 6th st 7th st A. S East 6 359.	331. 388. 59. 87. 173. 240. 59. 238. 232. 909. 232. 465. 237.
3rd av. S. E. 6th st. 7th st. A. S. East 6 359. 10th av. S. E. 7th st. Como av. A. S. East 6 612.7 12th av. S. E. Como av. Division st. A. S. East 6 1.217	331 388. 59. 87. 173. 240. 59. 238. 232. 909. 232. 465.

Table No. 14—Continued. SECOND WARD.

STREET.	From—	То-	KIND.	SIDE.	Width, feet.	Length assess'd.	Amount of assessm't
13th av. S. E 13th av. S. E 21st av. S. E 22nd av. S. E	Talmage av Como av Como av Como av	tth st Division st Talmage av Talmage av Talmage av Essex st	A. S A. S Plank. Plank.	East Both West	6 6 6 6 6	356. 614.2 568.2 1,009.9 606.9 679.5	99.68 515.93 477.29 282.77 169.93 190.26
Total						32,985.9	\$20,065.08

THIRD WARD.

Revent av	118th av N	20th av. N	Plank	Roth	6	1.018.5	\$285.18
	20th av. N	21st av. N					
Bryant av	zotn av. N	zist av. Iv	Plank.	Both	6	692.	193.76
CrystalLake av	Newton av	Penn av	Plank.	Both	6	2,173.8	608.66
Emerson av	6th av. N	11th av. N 26th av. N Bradford av	Plank.	West	6	1,610.1	450.80
Emerson av	22d av. N	26th av. N	Plank.	Both	6	2,600.	728,00
9th or N	Oak I ako av	Dradford or	Plank.	North	6	52.5	14.70
oth av. N.	od at	od -t	Flank.				
8th av. N	20 St	3d st	A. S	East	8	448.	501.76
8th av. N	Oak Lake av	Lyndale av	Plank.	Both	6	736.	206.08
8th av. N	Lyndale av	Emerson av	Plank.	Both	6	2,605.5	729.54
11th av. N	Aldrich av	Emerson av	Plank.	North	6	414.5	116.06
1141 av. 11	Midifical av	Limetson av				450.5	
11th av. N	oth St	Lyndale av	Plank.	South	6	452.5	126.70
11th av. N	Lyndale av	Aldrich av	Plank.	South	6	50.	14.00
		Emerson av	Plank.	Both	6	1.142.	319.75
1st st. N	3d av	Plymouth av	Plank.	East	8	1,753.8	584.78
					8		
4th st. N	ad av	Angle	Plank.	Both		5,304.	1,768.22
4th st. N 4th st. N		12th av	Plank.	Both	6	706.	197.69
4th st. N	12th av		A. S	Both	6	679.	570.36
5th av. N	2d st		A. S	Both	8	1,032.	1,155.84
	2d a4	~+14			8	890.2	
5th av. N	au st	5th st	Plank.	Both			296.78
5th st. N	Kailroad	9th av	Plank.	Both	8	2,374.1	791.50
5th st. N	9th av	10th av	Plank.	West	8	214.	71.35
		6th st	Plank.	East	8	251.	83.68
E4h a4 M	1441	1741	Flank.	East	6		
oth St. N	14th av	15th av	Plank.	East		348.2	97.52
5th st. N	12th av	Plymouth av	A. S	East	6	347.	291.48
5th st. N	11th av	11th av	Plank.	South	8	58.5	19.51
14th av N	2d et	5th et	Dlonk	North	6	1,292.3	361.84
144h av. N	Cal Suit	Lyndale av Plymouth av 21st av. N 25th av. N	Diank.		6	270.5	75.74
14th av. N	oth st	Lyndale av	Plank.				
Girard av	8th av. N	Plymouth av	Plank.	Both	6	2,833.6	793.30
Girard av	20th av. N	21st av. N	Plank.	East	6	335.	93.80
Hillside av	21ct av N	25th ov N	Plank.	Both	6	4,269.5	1,195.51
The or	Tomassor	TT:11-: d	Diank.		6	1.064.9	298.22
Ilion av	James av	Hillside av	Plank.	Both			
Irving av	Crystal L'ke av	21st av. N	Plank.	East	6	223.9	62.70
James av	Crystal L'ke av	25th av. N	Plank.	Both	6	5,225.4	1,463.15
Logan av	6th av. N.	8th av. N	Plank.	East	6	553.1	154.87
9th av. N	2d st		A. S	North	8	342.	383.04
Ook Lake ox	Passott's Crook	Oth or M	Dlamb	East	6	152.5	42.70
Oak Lake av	Bassett S Creek	oth av. N	Plank.				
Oak Lake av	oth av. N	8th av. N	Plank.	East	6	286.	80.08
Penn av	Crystal L'ke av	26th av. N	Plank.	Both	6	1,298.3	363.52
Plymouth av	2d st. N	Wash. av. N 3rd st. N 5th st. N	AS	North	12	119.	190,40
Plymouth av	Wash av N	2rd et N	AS	Both	12	493.	788,83
Dlymouth av	and at M	Tale of M	A	Conth	12	202.	323.20
Flymouth av	ard St. N	oth st. N	A. S	South			
	5th st. N	Lyndale av	A. S	North	12	95.	152.00
Plymouth av	Girard av	Humboldt av	Plank.	Both	6	475.6	133.17
	3rd av	Plymouth av	Aenh	Both	8	2,828.9	2.913.78
and at N	94+b ex	Deals our	Plank.		0	767.	255.67
and st. N	Dad at	coth av	Flank.	Both	0		
oth av. N	ara st	Plymouth av 26th av 5th st James av	Plank.	Both	8	1,250.	416.68
6th av. N	Humboldt av	James av	Plank.	North	6	390.2	109.25
6th av. N	Oak Lake av	Lyndale av	AS	North	6	419.5	352.38
6th av. N	Hoag av	Bradford av	A &	North	6	281.5	236,49
		Bradiord av	A. D				127.96
6th st. N	6th av	7th av	Plank.	Both	6	457.	141.90
7th av. N	2nd st	Wash. av	A. S	Both	6	712.2	598.30
7th av. N	5th st	Oak Lake av	Plank.	Both	6	1,504.6	421.32
3rd st. N	5th av	6th av	Plank.	South	8	170.	56.68
	6th ox			West	0	238.5	267.12
	oth av	tun av	A. S		0		
3rd st. N	10th av	12th av	Plank.	West	8	417.6	139.25
3rd st. N	12th av	14th av	A. S	Both	6	1,170.5	983.22
3rd st. N	14th av	20th av	Plank.	Both	6	1,926.2	539.31
3rd st. N	29nd av	26th av	Plank.		6	2,479.2	694.18
	Dlymouth o-	and at				2,017.3	1,553.32
10th av. N	Flymouth av	3rd st	Asph	Both	6		
	3rd st	5th st	Plank.	Both	6	1,338.	374.64
12th av. N	Girard av	Humboldt av	Plank	Both	6	256.	71.68
21st av. N	Wash, av	3rd st	Plank.	Both.	6	668.	187.04
21st av. N 21st av. N	Aldrich av	Irving av	Plank.	Both	6	3,987.9	1,116,61
99ad ox N	2nd at	Lyndale av	Dlam.	North.	6	1.125.5	315.14
word av. Iv	914 St	Lynuare av	Tank.	TOLEH.	O	1,100.0	910.14

Table No. 14—Continued. THIRD WARD.

STREET.	From—	то-	KIND.	SIDE.	Width, feet.	Length assess'd.	Amount of assessm't.
24th av. N	6th st	Lyndale av	Plank.	Both	6	739.3	\$206.92
25th av. N	Emerson av	Lyndale av. Lyndale av. Girard av. Fremont av. 8th av 14th av. Penn av.	Plank.	Both	6	652.9 1.330.	182.81 372.40
26th av. N	Wash. av	Fremont av	Plank.	South	6	2,979.	834.12
Wash av. N	7th av	8th av	A. S	Both	18	810.8	1,978.35
Willow av	Logan av	Penn av	Plank.	Both	18	348. 1,807.5	849.12 506.10
				20011			
Total	·	FOURTH WA	\ \.R.D.	١,,,,,,	١	80,557.9	\$33,839.61
Aldrich av	Laurel av	Hawthorne av	Plank	Both	6	475.5	133.14
Aldrich av	Western av	5th av. N	Plank.	Both	6	1,429.1	400.37
Bryant av Cedar Lake rd.	Western av	Rassett's creek	Plank	Both	6	1,076.2 1,770.4	301.28 495.71
Chestnut av	16th st. N	Lyndale av	Plank.	South	6	305.	85.40
Colfax av	Western av	Lyndale av 5th av. N	Plank.	Both	6	793.	222.04
Douglass av		Emerson av	Plank. Plank.	North	6 6	779. 325.5	218.12
11th st. S	Hennepin av	Harmon Place	AS	West	6	350.6	91.14 294.51
11th st. N	Hennepin av	Hawthorn av	A. S	Both West	6	689.	578.76
Erie av IIth st. S IIth st. N IIth st. N Fremont av	Hawthorn av Western av	Hawthorn av Chestnut av 5th av. N 5th st	A. S	West	6	100.	84.00
Fremont av	Western av4th st	5th av. N	Plank.	East North	8	724.5 177.	202.86 198.24
Fremont av. 1st av. N. 4th av. N. 4th av. N. 5th av. N. 5th av. N. 5th av. N. 14th av. N.	Aldrich av	oth st. Colfax av. Morgan av. Penn av. Colfax av. Girard av.	Plank.	Both	6	1,103.2	308.88
4th av. N	Knox av	Morgan av	Plank.	Both	- 6	1,067.8	298 98
4th av. N	Newton av Lyndale av	Penn av	Plank.	South	6	556.9	155.93 421.04
5th av. N	Colfax av	Girard av	Plank.	Both	6	1,503.8 2.176	421.04 609.28
5th av. N	Newton av	Penn av Spruce Place Spruce Place	Plank.	Both	6	2,176. 1,087.2	304.48
14th st	Nicollet av Nicollet av Hennepin av	Spruce Place	Plank.	Both	6	774.6	217.44
15th st. N 15th st. N 15th st. N	Nicollet av	Hawthorn av	Plank.	Both	6	788.1 853.5	220.66 716.94
15th st. N	Linden av	Chestnut av	Plank.	Both	6	463.5	129.78
Girard av	Western av	5th av. N Spruce Place	Plank	East	6	621.1	173.94
Grant st	Nicollet av	Spruce Place	Plank	Both	6	681.5	190.82
Groveland av	Hennepin av	Hillside Place Clifton Place	Plank. Plank.	Both North	6	2,184.3 1,262.	611.38 353.50
Groveland av Harmon Place.	11th st. S	13th st S	AS	Both	6	779.5	654.78
Hawthorn av	Aldrich av 9th st. N	Bryant av	Plank.	Both	6	514.5	144.06
Holden st Laurel av	9th st. N	Bryant av 12th st. N 15th st.	A. S	South North	6	931. 227.5	782.04 191.10
Laurel av	15th of	16th et	Δ 8	South	6	102.5	86.10
Laurel av Lyndale av	16th st	17th st	A. S	South	6	102.5 1,427.4 292.5	86.10
Lyndale av	Groveland av	Franklin av	Plank.	East South	8 6	1,427.4	475,87 81.90
Laurel av				North.	6	430.5	120.54
Linden av	16th st. N	Lyndale av	Plank.	South	6	324.8	90.96
Linden av	17th st. N	Lyndale av Lyndale av Bryant av Laurel av	Plank.	North .:	6	168.5	47.23
Linden av	Chestnut av	Laurel av	Plank.	South East	6	192. 622.	53.76 174.16
Lyndale av	Laurei av	Erie av	Plank.	Both	6	928.3	259,92
Lyndale av	R. R. bridge	6th av. N	Plank.	Both	6	4,175.6	1,169.02
Laurel av	17th st	Lyndale av	A. S	Both	6	218.8 685.6	183,80 575 83
Lyndale av Laurel av Mary place Mt. Curve av Nicollet av	Hennepin av	Erie av 6th av. N. Lyndale av 13th st. S. Emerson av	Plank.	North	6	1.387.9	388,61
Nicollet av 9th st. S 19th st Oak Grove st Penn av.	9th st	IUED St	A. D	EdSt	15	168.9	341.19
9th st. S	Nicollet av	1st av	A. S Plank.	South	15	125.	252.50
Oak Grove st	Vine place	Groveland av Vine place	A. S	North	6	50.6	14.17 142.80
Penn av	Western av	6th av. N	A. S Plank.	West	6	170, 1,137.2	318.92
Pleasant av Royalston av 16th st. N 16th av. N	Ridgewood av	6th av. N Franklin av 6th av. N	Plank.	Both	6	336.1	94.11
Royalston av	Highland av	Laural av	A. S	Both	6	749.5 732.	629.58 614.88
16th st. N	Laurel av	II mrd b mar co cons	A C	West	6	208.5	175 14
16th av. N	Royalston av	Aldrich av Mary place Mary place Yale place	Plank.	Both West South	6	927.7	259.74
10th st	Hennepin av	Mary place	A. S	North Both	6	98. 264.5	82.32
12th st. S	Mary place	Yale place	A. S	East	6	616.5	296.28 517.86
13th st. S	Hennepin.av			East	6	684.5	574.98
3d av. N	Aldrich av	Colfax av 9th st	Plank.	Both South	8	734.2	205.59
		UNK TROVE SL	FIRTHK.	Both	6	458.5 948.	513,52 265,44
Vine place Yale place Yale place	13th st. S	Spruce place 13th st	A. S	North	6	328.	275.52
Yale place	12th st	13th st	A. S	West	6	335.	281.40
Total					l	46,693.4	\$19,439.33

Table No 14—Continued. FIFTH WARD.

STREET.	From-	To— 17th st	KIND.	SIDE.	Width, feeth.	Length assess'd.	Amount of assessm't.
Chiango av	0th st	17th et	Plank	Fact	8	693.5	\$231.21
Chicago av	16th et	17th st	Plank.	West	8.	104.5	34 84
Chicago av	10th st	24th st	Plank.	East	8	635.8	34.84 211.97
Clinton av.	14th st	19th st	Plank.	West	6	491.1	137.51
Clinton av	Franklin av	24th st	Plank.	Both	6	546.9	153.14
Chicago av	14th st	16th st	Plank.	West	8	16.	5.34
8th av. S	Washington av.	3d st	A. S	Both	15	360.	5.34 727.20
8th av. S	3d st	4th st	A. S	East	15	344.	694.88
8th av. S	5th st	10th st	A. S	West	222	1,003.	1,123.36
8th av. S	5th st	10th st	Plank.	East	8	1.032.3	344.17
8th St. S	3d av	4th av	A. S	Both	8 3	362. 162.8	405.44 182.34
eth et S	8th ov	10th av	Plank	Poth	232	514.	171 35
8th et S	2d av	3d av	Δ S	South	8	78.	171.35 87.36
11th st S	1st av	2d av	Plank	North	8	180.	60.00
11th st. 8	2d a v	3d av	Plank.	South	8	670.	22.34
11th st. S	3d av	4th av	Plank.	North	8	61.	20.34
11th st. S	5th av	6th av	Plank.	Both	.8	475.8	158.69
18th st	2d av. S	Clinton av	Plank.	North	8	531.5	148.82
18th st	4th av. S	5th av. S	Plank.	Both	6	391.5	109.62 222.32
18th st	5th av. S	Chicago av	Plank.	South	6	794	222.32
18th st	Chicago av	10th av. S	Plank.	North	6	310.6	86.96
Franklin av	Nicollet av	1st av. S	Plank.	North	6	258.5	72.38 72.80 37.24
Franklin av	stevens av	Zu av. S	Plank.	Both	6	260. 135.	37 94
Franklin av	Ath av S	5th ov S	Plank.	North	6	252.7	70.75
Franklin av	5th av. S	Park av	Plank.	Both	6	708.4	198.35
Franklin av	Park av	Chicago av.	Plank.	North	6	530.	148.40
Franklin av	Chicago av	10th av. S	Plank	Both	6	1,250.8	350.20
Franklin av	Park av	Chicago av	Plank.	South	6	271.3	75.96
1st st. S	3d av	R. R. bridge	A. S	North	6	98.	82.32
1st av. S	8th st	10th st	A. S	East	8	418.9	469.17
1st av. S	10th st	Grant st	Plank.	East	8	602.	200.68
1st av S	Grant st	14th st	Plank.	Both	6	423.	118.44 276.48
1st av. S	loth st	17th st	Plank.	Both	6	987.4	783.30
1st av. S	2d or	220 St	Plank.	Both	6	2,797.5 185.	373.70
Ath av S	5th st	6th et	Acn	Foot	15 8	171.	176.13
4th av. S	6th st.	7th st	ASP	Both	8	458	512.96
4th av. S	9th st	10th st	A. S.	Both	6	531.	512.96 446.04
4th av. S	Grant st	14th st	Plank.	East	6	65.	18.20
4th av. S	14th st	15th st	Plank.	Both	6	407.5	114.10
4th av. S	15th st	15th st 16th st 19th st 24th st 24th st 10th av 10th av 6th st 5th av 22d st 18th st	Plank.	East	6	44.5	12.46
4th av. S. 4th av. S. 4th av. S.	16th st	19th st	Plank.	Both	6	696.	194.88
4th av. S	Franklin av	24th st	Plank.	West		238.8	66.86 57.96
4th av. S	220 St	24th St	Plank.	East	6	207. 138.	46.00
4th st. S	8th av	10th av	riank.	South	. 8	350.	392.00
5th av S	5th st.	6th st	Asph	West	8 8	342.	352.26
5th av. S. 5th st. S. 5th av. S.	4th av	5th av	A S	North		116.	129.92
5th av. S	Franklin av	22d st	Plank.	West	6	54.	15.12
	17th st	18th st	Plank.	West	. 6	50.	14.00
5th av. S	6th st	18th st. 7th st. 9th st. 10th st. Grant st. 14th st. 16th st. 22d st.	A. S.	Both	. 8	356.	398.72
5th av. S	8th st	9th st	A. S	East	. 8	244.	273.28
5th av. S	9th st	10th st	A. S	West	. 8	354.	396.48
5th av. S	IIth st	Grant st	Plank.	West,	. 8	123. 57.5	41.00 16.10
5th av. 5	14th at	14th St	Plank.	East	6	469.	131.33
5th av S	17th st.	99d et	Plank.	Both	6	858.	238.28
5th av. S	22d st	24th st	Plank.	Both	6	664.	185.92
5th st. S	1st av	2d av	A. S.	North	15	213.	430.26
5th st. S	3d av	5th av	A. S A. S	South	8	292.	327.04
5th st. S	8th av	10th av	Plank.	Both	. 8	784.	261.34
14th st	Nicollet av	l6th st. 22d st. 24th st. 2d av. 5th av. 10th av. 2d av. S. Clinton av. 5th av. S. Portland av. Chicago av. Stevens av.	Plank.	Both	. 6	1,627.	455.56
14th st	. 3d av. S	Clinton av	Plank.	South	. 6	153.5	42.98
14th st	4th av. S	5th av. S	Plank.	. South	. 6	131.5	36.82 39.06
14th St	Dowle or	Portland av	Plank.			139.5	130.96
15th et	Nicollet ov	Stevens ov	Plank.	North	$\frac{6}{6}$	467.7 297.	83.16
15th st	Nicollet av	2d av S	Plank.	North	6	568.	159.04
15th st	2d av. S	3d av. S	Plank	South	6	266.8	159.04 74.70
15th st	3d av. S	Clinton av	Plank	Both	6	535.	149.80
15th st	4th av. S	Stevens av	Plank.	Both	6	400.5	112.14
15th st	5th av. S	Portland av	Plank.	South	. 6	28.8	8.06
15th st	. Portland av	Park av	Plank.	Both	6	637.3	178.44

FIFTH WARD.

					b, 5		Amount
STREET.	FROM-	То-	KIND.	SIDE.	Width feeth.	Length,	of
					fe W	assess'd.	assess'mt
					_		
15th et	Park av	Chicago av	Plank	South	6	140	\$39.20
15th st	Chicago av	9th av. S	Plank.	South North	6	140. 158.5	44.38
15th st	Stevens av	2d av. S	A. S	South	6	129.5	36.26
15th st	Park av	Chicago av	A. S	North	6	278.3	233.77
Grant st	2nd av S	6th av S	Plank.	South North	6	1,199. 1,056.	335.72 295.68
Nicollet av	Grant st	18th st	Plank.	East	8	963.7	321.34
Nicollet av	19th st	Franklin av	Plank.	East	8	425.	321.34 141.70
9th av. S	4th st	5th st	Plank.	West	8	336.	112.01
9th av. S	17th st	18th st	Plank.	Both	6	405. 452.	135.01 126.56
9th st. S	1st av	2nd av	A. S	Both	8	195.1	218.58
9th st. S	2nd av	4th av	A. S	North	8	218.	244.16
9th st. S	3rd av	4th av	A. S	South	8	165.	184.80
Oth st S	6th av	7th av	A. S	South North	8	177.	198.24
9th st. S	7th av	8th av	A. S	Both	8	391.	44.80 437.92
9th st. S	8th av	9th av	Plank.	Both	8	773.6	267.89
19th st	3rd av. S	4th av. S	Plank.	South	6	537.5	150.50
19th St	5th av S	Park av	Plank.	North Both	6	686. 1,127.	192.08 315.50
Park av	10th st	24th st	A. S	Both		3,253.	3,643.38
Portland av	Grant st	24th st	A. S	Both	8	5,150.9	5,769.29
Stevens av	Grant st	17th st	Plank.	Both	6	869.9	243.58
Stevens av	17th st	22nd st	Plank.	East	8	200. 354.	56.00 396.48
2nd av. S	4th st.	5th st	A. S	East East East West	15	164.	331.28
2nd av. S	7th st	8th st	A. S	West	8	344.	385.28
2nd av. S	12th st	13th st	Plank.	West	0	240.	80.03
2nd av. S	Grant st	14th St	Plank.	East Both	6	103.3 547.	. 28.99
2nd av. S	Franklin av	22nd st	Plank.	East	6	300.	153.10 84.00
6th av. S	5th st	6th st	A. S	East	8	227.	254.29
6th av. S	6th st	7th st	A. S	West	8	128.	143.3
6th av. S	9th st	10th St	A. S	West	80	130. 210.	145.60
6th st. S	3rd av	4th av	A. S	South North	8	73.	235.20 81.70
6th st. S	5th av	8th av	A. S	Both	8	978.	1,095.30
6th st. S	8th av	10th av	Plank.	Both		838.	279.3
61/2 av. S	Pranklin av	22nd St	Plank.	West	6	680.5 354.	190.5
7th st. S	1st av	2nd av	A. S	South		153.	99.13 171.3
7th st. S	9th av	10th av	Plank.	North	8	342,	114.0
7th st. S	8th av	10th av	Plank.	South	8	422.	140.6
1% av. 5	18th St	2nd av S	Plank.	Both North	6	837.5 546.	234.53 152.88
16th st	2nd av. S	5th av. S	Plank.	South	6	760.5	152.88 212.9
16th st	4th av. S	Chicago av. 9th av. S. 2d av. 8 Chicago av. 5th av. S 6th av. S. 18th st. Franklin av. 5th st. 7th st. 18th st. 2nd av. 4th av. 6th av. 9th av. 9th av. 9th av. 9th av. 9th av. 9th av. 5th st. 7th st. 18th st. 2nd av. 4th av. 6th av. 9th av. 9th av. 9th av. 9th av. 8th av. 9th av. 8th av. 9th st. 12th st. 17th st. 22nd st. 12th st. 18th st. 18th st. 18th st. 18th st. 18th st. 18th st. 19th st. 2nd av. 4th av. 8th av. 9th av. 9th av. 9th av. 18th st.	Plank.	North	6	407.	113.9
16th st	Portland av	Park av	Plank.	Both	6	579.4	162.23
17th st	Stevens av	Clinton av	Plank.	North Both	6	591.5 1,163.5	165.68 325.78
17th st	Clinton av	4th av. S	Plank.	South		268.5	325 · 78 75 · 18
17th st	4th av. S	5th av. S	Plank.	North	6	269.	75.3
17th st	5th av. S	Portland av	Plank.	South	6	261.	73.08
17th St	Park av	Chicago av	Plank.	North Both	6	382.1 924.3	107.00 259.10
17th st	Chicago av	10th av. S	Plank.	South	6	449.5	125.80
3rd av. S	7th st	8th st	A. S	East	8	140.	156.80
3rd av. S	8th st	9th st	A. S	West	1 8	354.	396.48
ard av. S	19th st	Grant st	Plank.	Both East Both	8	469. 150.	156.36 50.00
3rd av. S	15th st	16th st	Plank.	Both	6	100.	28.00
3rd av. S	16th st	17th st	Plank.	West	6	163.7	45.8
3rd av. S	17th st	18th st	Plank.	East	6	111.	31.08
3rd av. S 3rd av. S 3rd av. S	Franklin av	24th st	Plank.	Both East West	6	410. 839.2	114.80 234.90
	TA TESTINATION OF A	99nd st	Plank.	West	6	839.2 106.7	29.88
3rd av. S	Franklin av			Doth	15	308.	622.13
3rd av. S 3rd st. S	Franklin av 8th av	9th av	A. S	Both			There . I
3rd av. S 3rd st. S 10th av. S	Franklin av 8th av Washington av	9th av	A. S	West	8	339.	379.68
3rd av. S 3rd st. S 10th av. S 10th av. S	Franklin av 8th av Washington av 7th st	9th av	A. S Plank.	West West	8 8	339. 364.	379.68 121.3
3rd st. S 10th av. S 10th av. S 10th av. S	8th av	9th av	A. S Plank. Plank. Plank.	West West West	8 8 6 6	339. 364. 1,923.2 453.8	379.68 121.3 538.49 127.00
3rd st. S 10th av. S 10th av. S 10th av. S	8th av	9th av	A. S Plank. Plank. Plank. A. S	West West West West	8 8 6 6 8	339, 364, 1,923,2 453,8 147.	379.60 121.3 538.49 127.00 164.6
3rd st. S 10th av. S 10th av. S 10th av. S	8th av	9th av. 4th st. 8th st. Franklin av. 24th st. 2nd av Chicago av. 8th av.	A. S Plank. Plank. Plank. A. S A. S	West West West West North North	886688	339. 364. 1,923.2 453.8	379.68 121.3 538.49 127.00

FIFTH WARD.

STREET.	From-	То	KIND.	SIDE.	Width, feet.	Length, assess'd.	Amount of assessm't.
21st st. S 22nd st. 22nd st. 22nd st. 22nd st. 24th st. 24th st. 24th st. 24th st. 24th st.	9th av. S Stevens av. Clinton av. Portland av. Chicago av. 4th av. S Portland av. Park av.	4th av. 10th av. S. 3rd av. S. Portland av. 6. 9th av. S. 9th av. S. 10th av. S. 10th av. S. 10th av. 10th av. 10th av. 10th av.	Plank. Plank. Plank. Plank. Plank. Plank. Plank. Plank. A. S	Both North Both North South North North North North North	8 6 8 8 6 6 8 8 18 18	842. 626. 272. 817.3 258.1 305.5 381. 258.1 552.5 692.2 600.6	280.72 175.28 90.68 272.48 86.06 85.54 106.68 86.02 184.21 1,688.97 1,464.00
Total						77,783.0	\$44,032.81

SIXTH WARD.

Codonor	I to to at	Railroad	Dlonle	Trans.		477.2	149.09
Cedarav	2d st				$\begin{bmatrix} 8 \\ 6 \end{bmatrix}$	677.1	189.58
Cedar av		5th st		West	14	334.3	675.29
Cedar av		6th st		Both	8	689.1	229.75
Cedar av		7th st		West	8	265.9	88.65
			A C	Both	8	635.	711.20
11th av. S		3d st	A. S	West	8	242.	271.04
11th av. S	3d st		Asp	West	8	171.	167.58
11th av. S	4th st.	5th st	Plank.	East	- 8	358.	119.34
11th av. S	5th st	6th st	Plank.	Both	8	700.	233.34
11th av. S	6th st				8	342.	114.01
18th av. S		Cedar av			8	282.	94.02
1st st. S	13 av			South	8	245.	81.67
4th st. S		12th av		South	8	474.	158.01
4th st. S	14th av			North	8	138.	46.01
4th st. S		Cedar av			8	494	164.70
4th st. S	10th av	21st av	Plank.		8	502.	167.34
5th st. S		19th av	Plank.	Both	8	2,451.3	817.30
14th av. S		Cedar av	Plank.	West	8	204.	68.00
14th av. S		7th st		Both	8	2.685.	895.10
15th av. S	Washington av	3d st	Plank.	West	8	100.	33.34
15th av. S		4th st		Both	8	146.	48.67
15th av. S		6th st	Plank.	Both	8	358.	119.35
15th av. S		7th st	Plank,		8	45.	15.00
Locust st	190 A or S	River Bank	Plank.		6	591.2	165.54
Riverside av	Codeney	River Bank	Plank.		14	2,613.	1,384.82
19th av. S		1st st			8	519.8	173.27
19th av. S		2d st	Plank.		8	62.7	20.91
19th av. S	2d st	Washington av	Plank.	Both	8	309.6	103.21
19th av. S	Wosh	2½ st	Plank.	East	8	171.	57.00
19th av. S	91/ of	7th st	Plank.		8	2,343.3	781.19
2d st	11+h ov	12th av	Plank.		8	350.	116.68
6th st. S	10th av	11th av		South	8	165.	55.00
6th st. S		19th av			8	685.5	228.52
6th st. S	Riverside av	25th av	Plank.		8	1,500.	500.32
7th st. S	Cedar av				8	911.	303 91
7th st. S	10th av	11th av	Plank.	North	8	292.	97.34
7th st. S	26th av	27th av	Plank.	North	8	358.	119.34
16th av. S	Cedar av	7th st	Plank.	Both	8	1.909.	636.47
17th av. S	Cedar av	6th st			8	342.	114.00
17th av. S	6th st	7th st	Plank.	Both	8	584.	194.67
2½ st. S		19th av		South	8	410.	136.67
2½ st. S		20th av		Both	8	513.	171.00
2½ st. S	20th av	21st av	Plank.	North	8	144.	48.00
3d st. S		15th av	Plank.	Both	8	638.	212.69
	Cedar av		Plank.	Both	8	1,989.	663.02
		Bridge	A. S	East	4	553.1	309.74
10th av. S			A. S	East	8	165.	184.80
10th av. S			Asph	East	15	277.	285.31
10th av. S	4th st	7th st	Plank.	East	8	718.	239.36
12th av. S		2d st	Plank.	East	8	358.	119.35
12th av. S	2d st	Wash. av	Plank.	West	8	171.	57.01
12th av. S	3d st	4th st	Plank.	West	8	342.	114.01
12th av. S	Wash. av		Plank.	East	8	171.	57.01
13th av. S		6th st	Plank.	East	8	171.	57.00
13th av. S		2d st	Plank.		8	342.	114.02
13th av. S		3d st	Plank.	Both	8	1,001.	334.02
13th av. S	3d st	7th st	Plank.	Both	8	1,641.5	547.23
	1st st	Bluff st	Plank.		8	815.3	271.86

SIXTH WARD.

20th av. S. 3d st. Riverside av. Plank Both 8 1.026 342,02 22d av. S. 7th st. Riverside av. Plank Both 8 1.026 373,4 22d av. S. 3d st. 225 st. Plank Both 8 1.129 373,4 22d av. S. Riverside av. Plank Both 8 516,1 120,0 22d av. S. Riverside av. Plank Both 8 516,1 120,0 22d av. S. 6th st. 6th st. 6th st. Plank Both 8 552,7 167,6 22th av. S. 6th st. 7th st. Plank Both 8 593,7 167,8 27th av. S. 6th st. 7th st. Plank Both 8 593,4 197,8 27th av. S. 2th av. Cedar av. A. S. Both 18 1,398 3,495,5 34,6 34,40 34,436,1 19,460,5 34,436,1 19,460,5 34,436,1		From-	To			ť		
Bloomingt'n av Lake st 32nd st Plank East 8 1,199.2 399.8								Amount of Assessm't.
Bloomingt'n av Lake st 32nd st Plank East 8 1,199.2 399.8	20th av. S	3d st	Riverside av	Plank. Plank. Plank. Plank. Plank. Plank. Plank. Plank. Plank. A. S	Both Both West Both West Both Both West Both West Both West Both North	8 6 8 8 8 8 8 8 8	1.120. 643.2 516.1 267. 502.7 593.4 175.8 1,308.	342.05 373.40 180.08 172.06 89.01 167.60 197.83 58.61 3,191.56
Bloomingt'n av Lake st 32nd st Plank East 8 1,199.2 3399.8	Total			ARD	l		43,436.1	19,460.93
Total.	Dloomingt'n o	vIT olvo ot			East	1 0	1 100 9	1 200 00
Aldrich av. Franklin av. 25th st. Plank Both 6 3,610.2 1,910.9 Aldrich av. Lake st. 31st st. Plank Both 6 672.1 188.18 Blaisdell av. 31st st. 32d st. Plank West. 8 507.7 199.3 Bryant av. Franklin av. 24th st. Plank Both 6 2,467.8 690.9 Clinton av. 27th st. 31st st. Plank Both 6 4,447.8 1,245.6 Colfax av. Hennepin av. 24th st. Plank Both 6 4,447.8 1,245.6 Colfax av. Hennepin av. 24th st. Plank East. 6 1.022 286.1 Dupont av. 27th st. 28th st. Plank Both 6 456.3 127.7 Emerson av. 27th st. 28th st. Plank Both 6 1,183.7 331.4 Franklin av. Lyndale av. Emerson av. Plank Both 6 1,883.7 331.4 Franklin av. Lyndale av. Emerson av. Plank Both 6 868.3 243.1 1st av. S. 33rd st. 34th st. Plank Both 6 605.2 169.4 Ist av. S. 23th st. 27th st. Plank Both 6 1,945. 544.5 4th av. S. 25th st. 27th st. Plank West. 6 605.2 169.4 4th av. S. 27th st. 28th st. Plank Plank West. 6 493.4 138.1 4th av. S. 27th st. 28th st. Plank Plank Both 6 1,241.8 347.7 5th av. S. Lake st. 33d st. Plank Both 6 2,055.8 575.6 Garfield av. 25th st. 25th st. Plank Both 6 2,055.8 575.6 Garfield av. 25th st. 25th st. Plank Both 6 3,61.4 117.0 Garfield av. 25th st. 25th st. Plank Both 6 3,61.4 117.0 Garfield av. 27th st. 28th st. Plank Both 6 3,61.4 117.0 Garfield av. 27th st. 28th st. Plank Both 6 3,61.4 117.0 Garfield av. 27th st. 28th st. Plank Both 6 3,61.4 117.0 Garfield av. 27th st. 28th st. Plank Both 6 3,61.4 117.0 Garfield av. 27th st. 28th st. Plank Both 6 3,61.4 117.0 Garfield av. 27th st. 28th st. Plank Both 6 3,61.4 3,61.4 Lake st. Nicollet	18th av. S. 15th av. S. Lake st Lake st Lake st Lath av. S. 12th av. S. 28th av. S. 29th av. S.	Lake st	34th st. 28th st. 15th av. S. Bloomington av. Cedar av 28th st. 28th st. 28th st. Lake st. Hiawatha av 27th st.	Plank.	Both Both South South Both Both Both Both Both Both Both Bo	6 6 8 16 8 6 6 8 8 8	4,734.1 2,381.2 272.4 161.9 255.7 3,282.8 2,414. 2,395.2 683. 1,193.8	1,325.89 666.74 90.82 100.38 85.24 919.10 675.92 798.57 227.67 397.96
Aldrich av Franklin av 25th st Plank Both 6 3,610.2 1,010.9 Aldrich av Lake st 31st st Plank Both 6 672.1 188.18 Blaisdell av 31st st Plank West 8 597.7 199.3 Bryant av Franklin av 24th st Plank West 6 2,467.8 690.9 Clinton av 27th st 31st st Plank Both 6 4,447.8 1,245.6 Colfax av Hennepin av 24th st Plank Both 6 4,56.3 127.7 Emerson av 27th st 28th st Plank Both 6 456.3 127.7 Emerson av 27th st 28th st Plank Both 6 456.3 127.7 Emerson av 27th st 28th st Plank Both 6 456.3 127.7 Emerson av 27th st 28th st Plank Both 6 605.2	Total						18,973.3	\$5,688.18
5th av S Lake st 32d st Plank Both 6 2,055,8 575,6 Garfield av 25th st 25th st Plank Both 6 519,7 145,5 Garfield av 25th st 27th st Plank East 6 418,1 117,0 Garfield av 27th st 28th st Plank Both 6 1,183,7 331,4 Grand av Lake st 31st st Plank Both 6 385,6 407,9 Hennepin av 32nd st 34th st Plank West 6 1,144,9 320,6 Lake st Nicollet av Stevens av Plank Both 8 1,674,9 359,7 Lake st Park av Chicago av Plank South 8 1,654 551,6 Lake st Lyndale av Hennepin av Plank North 8 2,167,9 722,6 Lindley av 29th st 29b½ st Plank South 6 1,884,8 336,9 Lindley av Lake st 31st st Plank Both								
Portland av. 28th st. Lake st. Plank. West. 8 956.8 319.0 Sheridan av. Franklin av. 21st st. Plank. West. 6 701. 196.2 Stevens av. 28th st. 29th st. Plank. Both. 6 511.3 143.1 Stevens av. 25th st. 28th st. Plank. Both. 6 3,318.9 929.6 2d av. S. 28th st. Lake st. Plank. Both. 6 1,118.2 313.1	5th av. S. Garfield av. Garfield av. Grand av. Hennepin av. Lake st. Lake st. Lake st. Lake st. Lindley av. Lyndale av. Lyndale av. Lyndale av. Lyndale av. Micollet av.	Lake st 25th st 26th st 26th st 27th st 27th st 27th st 27th st 28nd st 28nd st 28nd st 28nd av 29rd av Lyndale av 4th ennepin av 29th st Lake st Franklin av 24th st 27th st 29th st 29th st 29th st 29th st 29th st	32d st. 26th st. 27th st. 27th st. 28th st. 31st st. 34th st. 34th st. Stevens av Park av Chicago av. Hennepin av Lake Calhoun 29½ st. 27th st. 27th st. 29½ st.	Plank.	Both West East Both West Both South North North South Both Both Both Both Both West West West West	66666688886888888	672.1 597.7 2,467.8 4,447.8 1,022. 456.3 1,183.7 1,319.1 868.3 605.2 1,945. 493.4 1,241.8 2,055.8 519.7 418.1 1,183.7 385.6 1,144.9 1,078.9 1,654. 396.3 2,167.9 606.5 1,118.4 4,488.9 606.5 1,118.4 4,488.9 606.5 1,118.4 4,5 1,118.4 4,5 1,033. 956.8	1,010.95 188.19 199.32 690.99 1,245.64 286.17 - 127.76 331.43 439.76 243.31 169.46 544.59 138.14 347.76 351.42 107.97 331.42 107.97 320.66 132.11 722.69 192.18 384.03 5,027.63 202.18 384.03 5,027.63 202.18 372.90 15.00 187.77 155.66 1.538.10 1,789.38 344.43 319.05

EIGHTH WARD.

STREET.	From—	То-	KIND.	SIDE.	Width, feet.	Length assessed	Amount of assessm't.	
3d av S	25th st	26th st	Plank	Both	6	430.	Q190 40	
3d av. S	28th st	26th st. Lake st. Railroad. Hennepin av. Ist av. S. 4th av. S. Park av. Aldrich av. Colfax av. Stevens av. Portland av. Lindley av.	Plank.	Both	6	2,034.2	\$120.40 569.57	
21st st	Kenwood Boul.	Railroad	A. S	South	6	715.4	600.96	
22d st	Lyndale av	Hennepin av	Plank.	Both	6	1,990.4	557.44	
25th st	Nicollet av	1st av. S	Plank.	Both	6	342.1	557.44 95.79 545.72	
25th st	Stevens av	4th av. S	Plank.	Both	6	1.949.	545.72	
25th St	Tyndolo ov	Aldrich ov	Plank.	North	6	286.5	80.22	
25th st	Bryant av	Colfax av	Plank.	South	6	127.3 268.6	35.64	
26th st	Blaisdell av	Stevens av	Plank.	Both	8	1,425.1	75.20 475.12	
26th st	4th av. S	Portland av	Plank.	Both	6	999.8	333.32	
27th st	Blaisdell av	Lindley av	Plank.	Both	6	684.	191.52	
27th st	3d av. S	Portland av	Plank.	Both	6	965.6	270.37	
27th St	Portland av	Park av	Plank.	Both	6	778.1	217.85	
27th St	Dupont av	Girond ov	Plank.	Both	6	540.6	151.38	
27th st.	Garfield av	Lyndale av	Plank.	South	6	816.4 124.6	228.60 34.89	
28th st	3d av. S	4th av. S	Plank.	North	8	551.	183.69	
31st st	3d av. S	Portland av	Plank.	Both	6	1.933.9	541.49	
32d st	Nicollet av	2d av. S	Plank.	South	8	396.6	132.31	
32d st	3d av. S	Girard av Lyndale av 4th av. S Portland av. S 2d av. S Portland av Blaisdell av Lindley av Lindley av Pleasant av	Plank.	Both	8	902 2	132.31 300.78	
32d st	Nicollet av	Blaisdell av	Plank.	Both	8	772.3 657:	257,49	
320 st	Pleasant av	Lindley av	Plank.	Both	8	657.	219.03	
350 St	Nicollet ov	Pleasant av	Plank.	Both	6 8	726.1 1,137.6	203.29 379.33	
orth St	Miconet av	ricasant av	I lank.	MOPTH	10	1.157.0	379.33	
Total				1		81.294.3	\$29,334.56	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						1 422,001.00	
NINTH WARD.								
Adams et	Summer st.	15th av. N. E	Plank	Roth	6	4 140	1 161 79	
Centralay	8th st	10th st	A. S	North	6	4,149. 713.8	1,161.72 599.52	
Division st	Harrison st	E. st	A. S	North	6	3.089.1	2,594 86	
Division st	F. st	H. st	A. S	North	6	443.4	372.46	
F. st	Division st	15th av. N. E. 10th st. E. st. H. st. St. P. & N. P. Ry. Central av. Broadway st. 5th av. N. E. 27th av. N. E. 27th av. N. E. 27th av. N. E. 17th av. N. E. 15th av. N. E. Broadway st. 15th av. N. E. Broadway st. Broadway st.	A. S	Both	6	889.	746.76	
1st av. N. E	5th st	Central av	A. S	Both	6	1.218.5	1,023.54	
oth St. N. E	Weshington at	Broadway st	Plank.	East	6	1.907. 1.131.2	533.96 316.72 1,001.08	
Harrison et	18th av N F	27th av N E	Plank.	Foot	6	3,575.3	1 001 00	
Harrison st	25th av. N. E	27th av. N. E	Plank.	West	6	1,224.6	342.88	
Jackson st	20th av. N. E	27th av. N. E	Plank.	Both	6	5,207.	1,457.96	
Jefferson st	Summer st	Broadway st	Plank.	Both	6	1.231.	344.68	
Madison st	13th av. N. E	17th av. N. E	Plank.	East	6	1.443.5	404.17	
Madison st	13th av. N. E	15th av. N. E	Plank.	West	6	739.5	207.06	
Madison st	Summer st	Broadway st Summer st 24th av. N. E Harrison st Taylor st Broadway st	Plank.	West	6	606.	169.68	
Monroe st	10th ov N E	Pith or N F	Plank.	East	6	1,260.5 2,909.7	352.94	
10th av N F	Monroe st	Harrison et	Plank.	Both	6	2.197.	814.72 615.16	
19th av. N. E.	Harrison st	Taylor st	Plank.	North	6	754.	211.14	
Pierce st	Division st	Broadway st	Plank.	Both	6	4,209.3	1,178.36	
Polk st	18th av. N. E	26th av. N. E	Plank.	Both	6	5.826.1	1,631,22	
Spring st	Adams st	Jefferson st	Plank.	North	6	264.	73.92 75.60	
Summerst	Jefferson st	Taylor st. Broadway st. 26th av. N. E. Jefferson st. Monroe st. 26th av. N. E. Jackson st. 10th st. 3rd av. 5th st. Taylor st. Johnson st. Filmore st. Johnson st. Taylor st.	Plank.	North	6	270.	75.60	
ad av N F	5th et	Lackson et	A S	North	6	1,966.3	550.56	
3d av N E	5th st	10th st	A S	South	6	738.9 1,036.8	620.73 870.99	
10th st. N. E	Central av.	3rd av	Plank	West	6	177.	49.56	
13th av. N. E.	Washington st.	5th st	Plank.	Both	6	1.105.9	309.65	
22d av. N.E	Jackson st	Taylor st	Plank.	Both	6	2,332.3	653.06	
22d av. N.E	Taylor st	Johnson st	Plank.	North	6	1,474.7	412.91	
23d av. N.E	Jackson st	Filmore st	Plank.	Both	6	2.975.	833.00	
230 av. N. E	Filmore st	Johnson st	Plank.	North	6	1,130.4 687.	316.48 192.36	
Atmay, N.E	r ilmore st	1 a y 101 St	riank.	DOTH	6	001.	192.50	
Total						58.882.8	\$21,039.31	
		TENTH WA						
Emoreon av	196th ov N	30th av N	Plank	Roth	6	3,401.3	\$952.43	
Emerson av	30th av N	32d av. N	Plank.	West	6	604.	169.12	
Lyndale av	27th av. N.	29th av. N	Plank.	West	6	527	147.58	
Penn av	26th av. N	'30th av. N	Plank.	East	6	527. 1,870.6	523.76	
26th av. N	1st st	Wash. av	Plank.	North	6	699.	523.76 195.72	
26th av. N	Lyndale av	30th av. N	Plank.	North	6	1.591.6	445.64	
						8,693,5	\$2,434.25	
Total						8,095,5	TX,454,20	

ELEVENTH WARD.

STREET.	From-	То-	KIND.	SIDE.	Width,	Length assessed	Amount of assessm't.
Butler place Butler place Cedar av	24th av. S	23d av. S. 25th av. S. Alley	Plank.	South Both West	4 6 8	238. 709.6 156.	\$47.60 198.68 52.02
Cedar av 8th st. S 8th st. S	Franklin av 10th av 16th av	Minnehaha av 16th av 17th av Riverside av	Plank. Plank. Plank.	Both North	8888	500.7 2,168. 295. 72.2	167.00 722.80 98.36 24.08
11th av. S Franklin av Franklin av	7th st	Franklin av 24th av. S Franklin av. bdg	Plank. Plank. Plank.	Both Both North	8 12 12	2,877.9 8,452.8 850.8	959.48 3,888.39 391.37
Minnehaha av. 9th st. S	Franklin av	Franklin av Franklin av 22d st 21st av Franklin av	Plank.	Both East South	8	2,166.2 1,621. 647.2 358.	722.19 745.22 297.72 119.36
19th av. S	10th av	Franklin av Cedar av 21st av 8th st.	Plank.		8888	1,975.2 2,606.4 350. 519.	658.47 869.06 116.67 173.01
12th av. S	8th st	9th st. 9th st. Franklin av. 29th av. S. 30th av. S.	Plank.	Both Both		353.5 331.5 2,413.8 3,302.9	117.85 110.50 804.65 1,101.46
25th av. S	7th st	30th av. S. 24th st. 8th st. 24th st.	Plank.	North Both	8 8	350.5 3,882.6 777.5 2,328.8	116.88 1,294.59 259.56 776.48
28th av. S. 28th av. S. 29th av. S.	Divorcido ov	8th st. 24th st. 24th st.	Dlank	Both	8	1,045.1 2,176.6 3,667.4	348.85 725.79 1,222.88
Total						47,193.6	\$17,130.97
		TWELFTH W	ARD.				
Cedar av Chicago av	34th st	38th st	Plank. Plank.	Both Both East Both		4,998.7 3,121.8 2,425.8 7,278.1	1,666.74 1,040.97 808.89 2,038.28
35th st	Chicago av	Bloomington av.	Plank. Plank.	Both	6 6 6	4,261.5 4,395.6 1,176.8 1,257.4	1,193.17 1,230.61 329.50 352.08
Total						28,915.7	\$8,660.24
		THIRTEENTH	WARD				
Portland av Portland av 34th st	34th st	36th st	Plank. Plank. Plank. Plank.	East West East South	6 6 8 8 8	1,300.6 1,220.5 615.2 614.5 774.	364.17 341.74 205.15 204.83 258.03
Total	Humboldt av	Irving av	Plank.	North	6	4 792.8	75.04 \$1,448.96

Summary of Table No. 14.

SEVENTH WARD.	Amt. of assm't.	\$3,587.65 2,000.15 100.38		73.7 \$5,688.18 TOTALS.	\$884.56 \$5.412.97 \$5.412.97 \$5.322.79 \$5.322.79 \$5.322.79 \$5.412.90 \$1.445.49 \$1.445.49 \$1.445.49 \$1.777.59 \$2.355.77	\$247,916.92
SEVENT	Length, feet.	5,997.7		18,973.7 TOT	2,022.8 365.132.7 11.57.7 11.57.7 11.57.7 2,613.2 2,613.2 2,788.3 2,788.3 3,618.9 1,682.7 1,682.7	570,781.9
WARD.	Amt. of assm't.	\$535.20 11.744.35 1,384.82	1,167.04 1,167.04 1,167.04 1,167.04 1,167.58 1,167.58 1,167.58	\$19,460.93 H WARD.	\$7.40.39 668.01	\$1,448.96
SIXTH WARD.	Length, feet.	2,613.	1,042. 1,042. 1,308. 1,71. 2,77.	THIRT'NT	25.00 20.00 20.00 20.00 20.00	4,792.8
WARD.	Amt. of assm't.	\$11,593.59 4,719.14	762.13 20,097.15 3.179.44 3,152.97 528.39	T.T83. \$44,632.81 o 43.436 1 \$19,460.93 TWELFTH WARD. THIRT'NTH WARD.	\$5.143.64 3.516.60	\$8,660.24
FIFTH WARD.	Length.	41,397.7	907.3 17,943.6 1,574 1,292.2 513.	TT.783.	18,369.4 10,546.3	28,915.7
WARD.	Amt. of assm't.	\$9.834.29 475.87	7,527, 44 1,008, 04 593, 69	46,693.4 \$19,439.33 LEVENTH WARD.	847.68 11.198.68 11.561.99 5.839.70	47,193.6 \$17,130.97
FOURTH WARD.	Length, feet.	35,109.6	8,962.5 9000 293.9	46,693.4 \$19,439.33 ELEVENTH WARD.	238. 709.6. 11,571.2	47,193.6
WARD.	Amt. of assm't.	\$15,266.52 4,484.10	3.032.23 2.307.76 1,454.43 2.827.47 1,553.32 2,913.78	19.	종) 434 - 25	\$2,434.25
THIRD WARD.	Length, feet.	54,523.5	2,609 908 1,158 2,2017 2,828 98 98 98 98 98 98	80,557.9 \$33,839 Tenth Ward.	S. 669.3	8,693.5
WARD.	Amt. of assm't.	83.891.48	16,243.60	20,065.08 WARD.	6,828.86	\$21,039.31
SECOND WARD.	Length.	13,648.5	19,337.4	32,985.9 20,065. NINTH WARD.	8 8 20.7553 3.3 8.1299 55	58,882.8
NARD.	Amt. of assm't.	£4,83.12	18,143.79 2,355.78	\$25,342.69 WARD.	8336 96 13,193 15 8,637 76 600 96 6,565 73	\$29,334.56
FIRST WARD.	Length, feet.	17.296.5	21,599.7	40,578.9 \$25,342. EIGHTH WARD.	1,684 47,118 4 25,913 4 25,862 3 5,862 3	81,294.3
səni.	1001	28.8.3.3.8.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3	8.4.1.055.1.1 8.4.1.055.4.1.2.4.1.2.4.1.2.4.1.2.2.4.1.2.2.4.1.2.2.4.1.2.2.4.1.2.2.4.1.2.4.1.2.4.1.2.4.1.2.4.1.2.2.4.1.2.4.1.2.4.1.2.2.2.2		8884888845884F84	:
	KIND.	jiiii,	Art. Su	Total.	Plank	Total.

Total length plank walk, 464,798.6 feet; total length artificial stone walk, 98,493.4 feet; total length asphalt walk, 7,489.9 feet; grand total, 570,781.9 feet, or 108,102 miles.

Table No. 15.

ADDITIONS TO CITY OF MINNEAPOLIS APPROVED 1889.

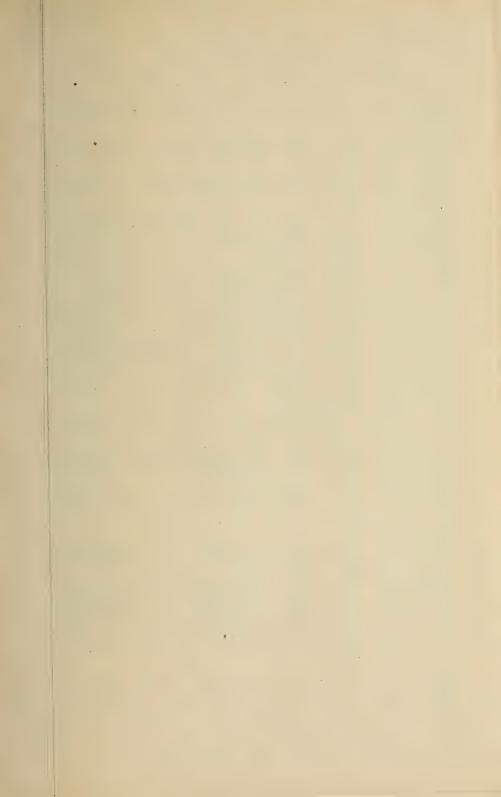
NAME OF ADDITION.	Date Approved.	No. of Lots.	Area plat'd, exclusive of re- arrangem'nts, sub-divisions, etc., square ft.
Bradford & Bassett's 2d. Butler's Brookside. Burnett Park. California Park. California Park. Calhoun Terrace. Carlson's subdivIsion block II, Park addition. Cherry Hill. Child's rearrangement lots 1, 2 and 3, block 2, Lakeview. Cleveland Park. Demming's, Polk street rearrangement. Farnham's 2d. Filteau's. Franklin avenue rearrangement block 37, Murphy's. Gale's rearrangement lots 1 and 2, block 33. Gille's subdivision of lots 14 and 15 Menage's supplement to East Side. Kenwood, rearrangement. Lauderdale s, W. H. Lauderdale's Shingle Creek	Oct. 11. July 5. May 11. June 21. April 19. May 3. Nov. 1. August 30. Sept. 13. Nov. 1. July 5. March 15. June 6. April 5. Feb. 15. July 5.	60 60 240 420 21 40 18 310 60 240 4 16 12 35 12 8 8 8 8 8 23 3 118 35 4 4 43 118 32	435,600 1,742,400 3,049,200 4,224,000 435,600 435,600 1,742,400 141,020 153,600 46,700
McCaull's subdivision of lots 48, 49. 50 and 51, block 1, Hamlin & Brown's McNair Park. Menage's 6th. Morgan's Newton & Fowell's Newtonb's Nettleton & Thurber's rearrangement of lots 1 and 2, block 6, Rigewood. Oak Park supplement Polk street subdivision Reminington Park, 1st division rearrangement in blocks 9 and 10. Roland Park Stetson, Page & Smith's subdivision of lots in block 2. Nicollet Island. Turner's rearrangement of lots 13 to 21, block 1, Parker's Water's 2d rearrangement in. Willet's, O. W., rearrangement of lots 1 and 2, block 3, Regent's.	April 19. Dec. 20. Feb. 1. March 22. April 19. Sept. 27. Sept. 27. May 17. Dec. 20. March 1. June 21. June 21. Sept. 6. June 18. Nov. 29.	6 700 17 26 240 120 2 207 20 35 60 8 14 12	9,853,600 210,000 1,742,400 871,200 1,742,400 435,600
Total		3,360	*28,350,320

*650.83 acres.

Table No. 16.

NEW BRIDGES UNDER CONSTRUCTION, BRIDGE REPAIRS AND MAINTAINANCE.

BRIDGES UNDER CONSTRUCTION.		
	Expenditures.	Totals.
Hennepin av. steel arch, over Mississippi River (2d half)	\$7.20	\$287.20
REPAIRS AND MAINTAINANCE.		0.000
	0400 40	
Second street N., over railroads	\$102.19 17.35	
University avenue, over railroads	17.39	
Irving avenue, over Shingle Creek	38.96 102.38	
First avenue N., over railroads	102.38	
Hiawatha avenue, over Minnehaha Creek		
Hennepin avenue, over railroads (bridge square)		
Lake street, over Mississippi River (approaches)	101.60	
Lyndale avenue, over Minnehaha Creek		
Portland avenue, over Minnehaha Creek	4.24	
Twentieth avenue N., over Mississippi River		
Hennepin steel arch, Mississippi River (lamp posts, etc.)		
Sixth avenue N., over Kegan's Lake		
Tenth avenue N., over Bassett's Creek	1.319.09	
Plymouth avenue, over Mississiph Aiver.	1,519.09	
Washington avenue, over Mississippi River	1,280,90	
Tenth avenue S., over Mississippi River	81.64	
Suspension, over Mississippi River	42.98	
Sixth avenue S., over canal		
Western avenue, over railroads	138.09	
Tools and general repairs	199.09	\$5,466.70
NEW BRIDGES COMPLETED DURING 1889,		φυ, 900.10
Hennepin Island, over Mississippi River	4,894.18	
Washington avenue, over Bassett's Creek (widening)	3.354.54 90.937 40	
Lyndale avenue, over railroads	20,835.40	
Franklin avenue, over Mississippi River, completed in 1888, bu	20 105 22	
last payment made in 1889	30,195,33	
Fifth avenue N., over Bassett's Creek.	1,942.00	
Western avenue, over Bassett's Creek	1,653.70	900 005 45
		\$63,205.45
		\$68,959.35



BRIDGES.-Supplement to Table No. 16.

Rund No Localt Foot refect Kund Watte No Kund Moterial Local Consistent Section of the Structure No. 1 Lift Section Structure No. 1 Lift Section Secti	\$11(45) 5. 1.894 18 Build in 18 5 1 (build in 1889)
1 1 1 1 1 1 1 1 1 1	1804 (8) Built at 18.2 in built in 1880 188 164 81 it enter pier built on extress hyproximate process contract let for completing 14 age for full width is feel. 180,000 00. Built (3) Humania and Romer's considerations.
We derive Worspier of Higelian teclines. Then 2 28 544 28 Collar block 42 4 Ock plans. Mainstate rate stem and 21 to the Sandries. 44 Count 1888 Progress 8991 or Was about 11 to proper stem. Dec. 2 456	188 [6] St. Center per badfon earts on by presum are precessed earlier of let for complete. The general full width so feet. 18,000 00. Built by Henry named Representation
	1 s. D. Dir. Butte by Hero en and Permery countries
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	The straight of the straight o
Westernite, We repute the structure of the process	5096392 231-24-90 Condemned contract let for renoving 16000000 Wooden stringers
Mrs. pp. 1811 Tra. S. Through 4 200° 805 36 Cedar block 6 2 Pinc plants Manasto linestone Piling [1] Good 1888 1848 8 624.29 Mrs. pp. 1811 Tra. S. Drok 4 194 Mrs. pp. 1812 Transporter from Positives Drok 4 194 Mrs. pp. 1814 Transporter from Positives Drok 4 194 Mrs. pp. 1815 Transporter from Positives Drok 4 194 Mrs. pp. 1815 Transporter from Positives Drok 4 194 Mrs. pp. 1815 Transporter from Positives Drok 4 194 Mrs. pp. 1816 Transporter from	protection wooden stringers per to 8
1	9 344 55 271 00 Temporary bridge 1,500 00 8,000 00 8,000 00 1 9,4 12 6 119 168 6 92 40 2,94 5 1 Originally stone arch; changed in 1888 10,500 54 8,884 84 Widened in 1889 to 100 ft original cost \$5,000,
A construct of the plant of the	1.980.39 Originally built in 1885; rebuilt in 1880 1.486.00 1.450.05 1.236.52 10.004.52 Built in compinetion with the Mpls. Will Co. 15.902.64 Wash avecarried under the C. M. & St. P.
Shrigherres Woodergrider 1. Shrigherres Woodergrider 2. Shrigherres From bears Deck. 1 29 24 2, Oak plank 6 2 Pine plank Blue and Mankato linestone Sand rock 6 Good 185 1,100.00 250.00 2. White have tree Wooder from bears Deck. 1 29 24 2, Oak plank 6 2 Pine plank Blue and Mankato linestone Sand rock 6 Good 185 1,100.00 250.00 2. White have tree Wooder from bears Deck. 1 29 24 2, Oak plank 6 2 Pine plank Blue and Mankato linestone Sand rock 6 Good 185 1,100.00 250.00 2. White have tree Wooder from bears Deck. 1 29 24 2, Oak plank 6 2 Pine plank Blue and Mankato linestone Gravel 12 Pine plank 12 Pine plank Blue and Mankato linestone Gravel 12 Pine plank 12 Pine plank Blue and Mankato linestone Gravel 12 Pine plank 12 Pine plank Blue and Mankato linestone Gravel 12 Pine plank 12 Pine plank Blue and Mankato linestone Gravel 12 Pine plank 12 Pine plank Blue and Mankato linestone Gravel 12 Pine plank 12 Pine plank Blue and Mankato linestone Gravel 12 Pine plank 12 Pine plank Blue and Mankato linestone Sand rock 12 Pine plank 12 Pine plank Blue and Mankato linestone Sand rock 12 Pine plank 12 Pine plank Blue and Mankato linestone Gravel 12 Pine plank Blue and Mankato linestone Sand rock 12 Pine plank 12 Pine plank Blue and Mankato linestone Sand rock 12 Pine plank 12 Pine plank Blue and Mankato linestone Sand rock 12 Pine plank 12 Pine plank Blue and Mankato linestone Sand rock 12 Pine plank 12 Pine plank Blue and Mankato linestone Sand rock 12 Pine plank 12 Pine plank Blue and Mankato linestone Sand rock 12 Pine plank	Ry; work done in conjunction with Ry. Co. Old county bridge
Tries tratics Windshiercow Woods Fonvitiuss Through 1 30 30 46 Pine plank Rhue linestone. Timbergrillage 10 Pnor Lists Windshiercow Windshiercow Through 1 30 80 29 Oak plank 6 2 Oak plank Blue linestone Earth 17 Good Plyrouthers Plyrouthers St.P.W.A.W.R.W. Wooden testing Deck 6 H to 17 90 18 Pine plank Puling Piling 18, Good 1888	Old county bridge. (N. P. Ry.; city did grading 6.112.06 Plymouth av. and First street, carried under Temporary structure; bullt by Ry. Co
Deck 28 Deck 1 28 Deck 1 28 Deck 1 30 65 17 Oak plank Blue limestone Lime rock 184 Fair 184 Deck 184 Fair 184 Deck 184 Fair Set P. M. A.M. R.V. Grounders Deck 5 14 134 27 Oak plank Blue limestone Rock Rock 182-12 Fair Rock Blue limestone B	Bullt by railway companies. Temporary structure, built by Ry. Cos. Built by Ry. Co. Built by Ry. Co.
R v storav St P M & M Rv and M & St L Rv Iron grider	34.789-72 Built by Ry. Cos. Built by private parties Built by Ry. Co. Being widened eleven db feet. Temporary structure; built by Ry. Co.
Fourth av. N. St. P. & N. P. Ry Wooden bents and Pony truss Deck. 1 15 Deck. 1 15 Deck. 1 16 Deck. 1 17	Built by Ry. Co.
Deck 23	Temporary structure; bullt by Ry. Co. Bullt by Ry. Co.
Deck. 4 17 17 17 18 18 19 19 19 19 19	







Steel Arch Bridge.

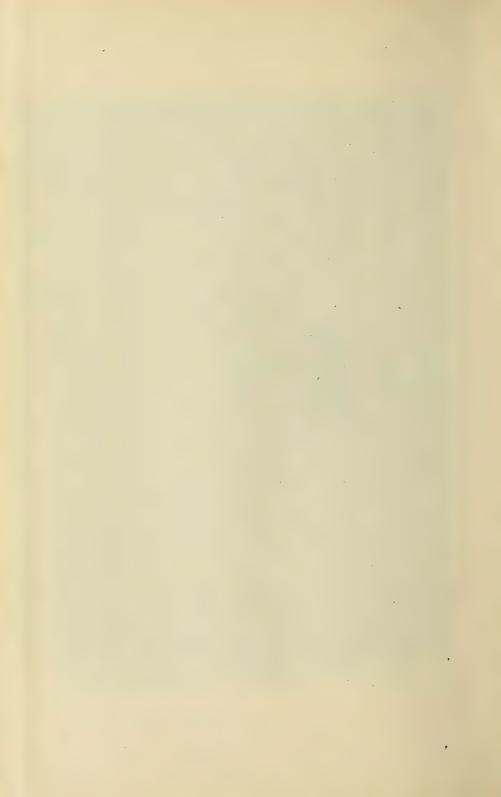


Table No. 17.

AMOUNT AND COST OF LUMBER UNDER THE DIRECTION OF THE CITY ENGINEER'S DEPARTMENT, 1889.

W	NUMBER OF FEET, BOARD MEASURE.					Total	Total	
WARD.	Sun- dries.	Cul- verts.	Cross walks.	Side- walk rep'rs.	Side- walks.	feet.	cost.	
		1,152	20,908	3,795	8,888	34,743	\$437.66	
Second		11,043	9,097	19,200	60,126	99,466	1212.20	
		5,207	20,694	27,404	316,133	369,438	4,469.77	
Fourth	304		27,112	19,057	134,848	181,321	2,207.75	
Fifth			17,483	17,634	171,333	207,799	2,533.93	
Sixth			9,810	6,063	196,363	212,236	2,556.92	
Seventh		480	21,488	5,368	98,571	125,907	149,963	
Eighth		768	34,800	2,907	272,180	310,655	3,773.67	
			11,982	2,820	224,318	239,120	3,542.55	
			1,160	00 004	947 646	5,322	64.91	
		9.004	32,819 9,471	28,031	347,646	308,496	4,345.52	
		3,264	9,471		29,797	42,532	551.83	
Thirteenth						1,088 1,923	16.32 70.64	
Cedar block paving repairs						9,865	131.69	
Cedar block paving repairs, con-	• • • • • • •					9,000	101.09	
duits						3,139	39.94	
duitsBridges and bridge repairs						121,638	1.574.96	
North Mals numning station						24.129	380.69	
North Mpls. pumping station S. E. Dump.						2,820	35.31	
Sewers				1		1,393,548	16,588,82	
Sewer tunnel, N. Minneapolis						130,921	1,634.33	
Sewer tunnel, S. W. Minneapolis						27,984	379.31	
Sewer tunnel, N. E. Minneapolis						48,156	624.41	
Sewer tool houses						3,100	39,80	
Sewer tunnel out falls						3,175	47.02	
Sewer tunnel out falls, N.E. Mpls						1,696	22.05	
Straightening Bassett's creek						1,500	20.25	
General account sewers						24,839	424.23	
Total, pine lumber	1,653	27.164	216,824	132,279	1,760,203	3,936,556	\$49,226,11	
OAK.					, , , , , ,	,		
Bridges and bridge repairs						50.924	895.62	
N. Minneapolis pumping station						844	30.10	
Total oak lumber						51,768	925.72	

Table No. 18.

PUBLIC BUILDINGS, CONSTRUCTED OR REPAIRED, WATERING FOUNTAINS, ETC., AS DIRECTED BY THE CITY ENGINEER'S DEPARTMENT, 1889.

City hall, repairs, ventilation, furniture, etc.	\$1,973.98
Hose house, Twenty-Fourth av. N. E. and Harrison.	3.010.90
C E draws, I wenty-Fourth av. N. E. and Harrison.	138.96
S. E. dump.	138.90
Watering troughs and fountains.	469.31
North Minneapolis pumping station	208,965.75
Exposition illumination.	3,000.00
Total	\$217 558 00

Table No. 19.

STREETS OPENED AND VACATED JANUARY 1, 1889, TO JANUARY 1, 1890.

deed.	Length vaeated, feet,	<u>8</u>
ityby	Length opened, feet,	1, 388 80 1, 388 1,
ed to the	Sq. feet opened.	3,386 76,500 65,730 68,730 68,730 68,400 68,400 17,500 11,200 11,
dedicat	Length pending, feet,	# 표 표 표 표 표 표 표 표 표 표 표 표 표 표 표 표 표 표 표
or were	Width ofstreet, feet.	888 878878 888 8888 8 8888 888
proceedings,	Width opened, feet.	Trregular 1 1 1 1 1 1 1 1 1
demnation	Deed accepted.	May 3.
ing, by cond	Resol'tion vacating.	March 29. Oct. II. Oct. II. Oct. II.
nding for open	Proceedings confirmed.	July 5 July 5 July 1 Pending April 19 April 19 August 15 November 15 Pending
re pe	Op'n'g or vacat'n.	0>0000000000000000000000000000000000000
streets were opened, or proceedings are pending for opening, by condemnation proceedings, or were dedicated to the cityby deed	Т0—	Bryant av. 3sth st. Inhversity av. 3sth st. Inhversity av. Bryant av. St. Mary's av. Milatary res. line. 2sth av. S. E. 2sth av. Bryer.
	FROM-	Vineland Place. 34th st. Erie st. Erie st. Grib st. Lenox st. Humboldt av. Erie ro. Biver road. Sad av. Monroe st. Addrich av. Mary st. Addrich av. Mary st. Stillman add. Addrich av. Mary st. Stillman st. Stillmoll av. Summit Park Western av. Summit Park Western av. Summit Park Sum
The following named	STREET.	Bryant av Vineland Ple Bloomington av Vineland Ple Bloomington av Vineland Ple Bloomington av Alti st. Central av Eric st. Gentral av Eric st. Idth st. Eric st. Delaware st. Delaware st. Brie st. Delaware st. Brie st. Delaware st. Brie st.

	ENGINEER'S	KEPORT.
888		†66°6°
275 153 695	1,352 297 358 358 358 350 2,750 1,652 1,080	2,500 330 1,328 5,609
16,500	75,624 2,970 23,628 57,600 15,087 6,160 81,960 43,200	3.200 72.163 2.130,683
150 111 9.200 340 112 1,835	2663 269 1,595	260
\$ \$888888	8 8 88588 8 8 8	20 120 163 163 163 163 163 163 163 163 163 163
8 8788888888	(86 (66 (86 (80 (80 (60 (60 (60 (80 (80 (80 (80 (80 (80 (80 (80 (80 (8	60 120 120 10 10 10 10 10 10 10 1
		Deeded
Dec. 20 Oct. II.	Oct. 11.	
November 29 November 20. November 20. Pending. Pending. Pending. Pending. Pending.	Courtaward. November 29. October 4 Pending August 2 October 4. Pending November 29. November 15.	May 4 March I. Pending Aug. 30.
0>>00000000	0 0>0 0 00000 0 0	0 000 :
Douglas av. River. River. Humboldt av. 24th av. N. E. 24th st. Centerline of sec.7-29-23 Harrison st. Rinst et	Lake st	E. city limits. Bryant av. 2d. st. 20th av. 100ft, S. of Western av. Straightening.
Summit av Summit av River road Grand av 18: av N. E. Stillman's add. Division st Jackson st Jackson st Jackson st Jackson st Jackson st Jackson st	24th st. 18-5 av. N. E. 18-5 av. N. E. 18-6 av. N. E. 24th st. 3d av. S. 10th av. S. 16th st. 3d av. S. 3d av. S.	Oak st Lyndale av 19th av 3d st. N
Oliver av. Summit av. Oliver av. Summit av. Polik st. Fiver road. Briver road. Briver road. Briver road. Stevens av. Stillnan's add Stork v. S. Stillnan's add Trh st. N.		Univ. av. S. E Oak st Vinland place Lyndale Wash. av. N 19th av. Wash.av. N 19th av. Bassett's creek 3d st. N.

8.292 miles, or 46.6 acres of streets opened.

Table 20.

ALLEYS OPENED AND VACATED JANUARY 1.1889, TO JANUARY 1.1890.

Length vaeated	150	139		261	603	178	1,260
Length opened	916	258	195 195	350	222	279 300	1,823
Sq. ft. opened.	3,269	3,612	1,200 2,340	3,500	2,668	3,906	24,895
Witch vaeated —feet.	100	19	1	71		165	
Width of alley—feet.	#	14	ಪ್ರಪ	71	10& 18	12&16	
Width opened —feet,	14	#1	약약	77	10& 18	12&16	
Deed accepted.		Deeded		Deeded	May 17.	Deeded	
Resolu- tion va- cating.	Tulv 7	Tuly 19		July 19.	Oct. 11	July 19	
Proceed- ings con- firmed.	May 17		Oct. 4.			Aug. 2	
Opening or vaeation.	0	· · · · ·	00	0>	 >0	>00	:
Addition.	North of Clasen's add	Crim's 3d	Hugles's add, to 22d st Maxes resurvey	Minnehaha Minnehaha	Meeker Island Land and Power Co. Murphy	South side South side Wilson, Bell. Wagner.	
ALLEY IN BLOCK.		66.	Unplatted		::: ::::::::::::::::::::::::::::::::::	11333	Total

 ${\it Table No. 21.} \\$ LEVELS RUN, GRADES, ORDERS, SURVEYS, ETC.

STREET.	Froм—	То	Length levels run, fee	
bbott av	Horse Shoe lake	Aonian av	1	
short are	Hollowan's lake	Chostnut ox	1 11	
bott av	36th st	12th av. N. 51st st.	11.	
drich av	50th at	Slot of		
drich avtoinette av	Superior av	Eden av	1	
onian av	Superior avYoung av	Eden av Beard av Abbott av	1,	
ra avrne's Place	Lamie av	Abbott av	1.	
rne's Place	Humboldt av	Irving av	'	
ard av	Superior av	Western av	3,	
eard aveard av	50th st	54th st	11. 2. 1.	
yant av	50th st	52d st	ĩ	
icago av	16th st	Franklin av	1.	
iongo or	27th st	Lake st Chestnut av	1.	
owen av	Beard av. Lake View av. Boulevard.	Chestnut av		
owen av	Lake view av	Devil's Glen	1,	
lfax avystal Lake av	Penn av	Serves av	1.	
uglass av	Beard av	France av	1	
uglass avew av	Superior av	France av. Western av.	4.	
pont av	Boulevard. Beard av. Beard av. Ith av. N. 20th av. N. Hith av. N. Minnetonka av.	12th av. N. 25th av. N. 54th st. Manitoba av.		
pont avpont aven av	20th av. N	20th av. N.	2,	
on av	Minnetonka av	Manitoba av	3,	
wood av	Gladstone av	3d av. S.	9	
wood av	6th av N	Plymouth av	2, 3,	
nerson av	46th st Penn av Douglass av	Plymouth av	3,	
ie av	Penn av	France av	5,	
ing av	Douglass av	Chestnut av	3,	
av. N.	Elwood avSheridan av	Dupont av	2,	
av S	4th st	Xerxes av9th st	1, 2,	
st. S	4th st Nicollet av Hawthorne av	1st av.	ω,	
av. S	Hawthorne av	1st av. Chestnut av.		
9 n 0 0 9 37	Donales on	Western av	3,	
anklin av	Sth av. S	11th av. S	1,	
emont av.	19th et	52d st. 15th st	3,	
av. S.	22d st	27th st	2,	
av. N	Penn av	Sheridanay	٠٠,	
av. N	Penn av	Sheridan av		
h av. S	18th st Park boulevard	rrankiin av		
h st. t st.	Sheridan av	Beard av	3,	
st	Cedar av	Beard av	2,	
st	Cedar avBoulevard50th stPark boulevard51st et	34th av. S. Xerxes av. 54th st.	2,	
stav. S	50th st	54th st	2,	
stb av. S	Park boulevard	Xerxes av.	1,	
		54th st	2,	
h st. h av. S.	Lake Harriet boulevard Hiawatha av	Beard av	3,	
h st.	Upton av	Beard av.	2,	
nav.s.	Hiawatha av.	54th st	ĩ,	
n st	Upton av. Lake Harriet Thomas av.	Reard av	2,	
h st	Lake Harriet	Beard av. Beard av. 39th av. S.	2.0	
a st	Thomas avCedar av	Beard av	2, 7,	
a st	Dupont av	Irving av		
h st	Dupont av Pleasant av Dupont av Thomas av	Irving av Nicollet av	1,	
a st	Dupont av	Knox av. Beard av. 40th av. S.	2,	
a st	Thomas av	Beard av	2,	
		40th av. S	5,	
n et	Nicollet av Lake Amelia Prospect av	Beard av	12,	
n st. n st. t st.	Prospect av	Beard av	6,3 9,	
t st	Prospect av Lake Amelia Nicollet av Phomas av Iliawatha av Lake Amelia	42d av. S	8,	
st	Nicollet av	South View av	1,9	
stst	Thomas av	Beard av	2,6	
st	Hawatha av	42d av. S	1,6	
st	Vorvos av	Roard ov	7,	
st	Xerxes avLake Amelia	Beard av	.1.: 9,	

STREET.	From—	То-	Length of levels run, feet	
arfield av	50th st	. 51st st	7	
irard av	8th av. N	. 51st st	2.0	
irard avladstone av			2.0	
rant st	Willow st	Minnehaha boulevard	2,0	
ranada av	Antoinette av	Ist av S St. P., M. & M. Ry Seymour av Ilth st. Zenith av	1,7	
lamline av	Clarendon av	. Seymour av	1,3	
larmon place	Thomas av	. Ilth st	2,5	
outhorn 957	A bbott 9 v		4,5 1,0	
ennepin avennepin aviawatha av	14th st	Mt. Curve av	3,3	
ennepin av	34th st	. 36th st	1.3	
iawatha av	38th st	. 46th av. S	10,4	
iawatha avigh View	Prospect av	John av. S. Slst st. Prospect av. Upton av. 36th st.	8	
ill placeolmes avumboldt av	44th st	Upton av	8	
olmes av	44th st	. 36th st	1,3	
umboldt av	34th st	. 36th st	1,3	
mm boldt 9 W		Still St. St. P. & P. Ry Ilth av. N. Ilion av. 26th av. N. Mt. Curve av.	4,5	
stving avving av	Division st. 8th av. N. Irving av. 19th av. N. Douglas av.	11th av N	5,4 1,0	
ving av	Irving av	Ilion av	1,0	
rying av	19th av. N	. 26th av. N	2,7	
ving av	Douglas av	Mt. Curve av	5	
eving av	Doulovard	. Journ St	1,0	
st	Boulevard. 18th av. N. E. 19th av. N. Douglas av. Boulevard.	54th st. Division st. 26th av. N. Mt. Curve av. 54th st. 18th av. N. E. Crystal Lake av. Mt. Curve av. 54th st. 54th st. 18th av. N. E. France av.	4,1 5,2	
mes av	19th av. N	26th av. N.	1,6	
imes av	Douglas av	. Mt. Curve av		
imes av	Boulevard	. 54th st	3,8	
st	DIVISION St	- 18th av. N. E	5,	
nox av	Douglas av	Mt. Curve av	É	
nov av	52d st	54th st	1,	
nov av	Boulevard	. 54th st	3,9	
st	Division st	. 18th av. N. E	5,5	
akeview avake Harriet boulevar	Beard av	France av	1,5	
aurel av	d. Around the lake	Halloran's lake26th av. N.	18,7	
ogan av	119th av	. 126th av. N	2,0	
oganav	Donglas av	Mt. Curve av54th st		
ogan av. uverne av. yndale av.	Douglas av Boulevard. Elmwood av.	. 54th st	3,8	
uverne av	Dell Place		1,6	
yndale av		Southview av	1,0	
. st	Division st	. 18th av. N. E	5,5	
aderia avanitoba av	Superior av	. Grenada place		
anitoba av	Penn av	Xerxes av	2,8	
innehaha avinnetonka av	Superior av	Xerves av	9,6	
organ av	19th av. N	Crystal Lake av		
organ avorgan av	Douglas av	. Mt. Curve av		
organ av	38th st. Superior av. 19th av. N. Douglas av. 50th st.	31st st. Southview av. 18th av. N. E. Grenada place. Xerxes av. 46th av. S. Xerxes av. Crystal Lake av. Mt. Curve av. 52d st. Manitoba av.	1,	
yrtle avst.	Division et	Manitoba av 18th av. N. E 23d av. N. 26th av. N. Kenwood boulevard,	1,5 5,5	
ewton av	19th av. N	. 23d av. N	0,0	
ewton av ewton av ewton av	Division st 19th av. N Hillside av.	. 26th av. N	· ·	
ewton av	Donglas av	. Kenwood boulevard		
ewton av	90th St	. 52d st	1,6	
h st. S st	50th st. 29th av. S. Division st	18th av. N. E	5.2	
liver av	19th av. N	. 23d av. N	1,1	
liver av	50th st	. 52d st	1,8	
stark boulevard	Broadway st	Oueen av	3,8	
onn 037	Rouloward	33d 8t. Riverside av. 18th av. N. E. 23d av. N. 52d st. Division st. Queen av. 54th st.	3.7	
rospect av	Bellmont av	. 52d st	2,8	
ueen av	Bellmont av. 40th st. 20th av. N. E 38th st.	. 52d st	4,7	
uincy st	20th av. N. E	. St. P. & N. P. Ry	1,1	
rospect av ueen av uincy st ailroad av ichfield av	38th St	52d st 52d st 52d st St. P. & N. P. Ry 42d st Lake Calhoun boulevard	2,9	
assell av	26th av. N			
ussell av. ussell av. ustic Lodge av. heridan av.	40th st	. 52d st	1,	
ustic Lodge av	Nicollet av	52d st Pleasant av Plymouth av Chestnut av	1,3	
haridan ay	Superior av	. Plymouth av	7.8	

Table No. 21-Continued.

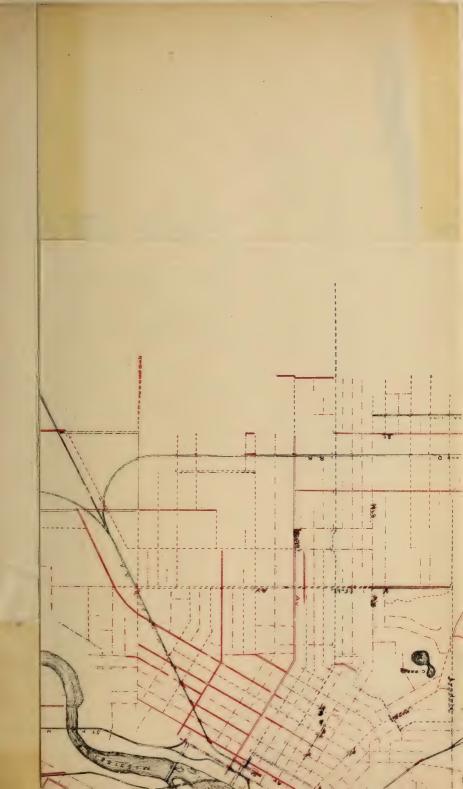
STREET.	From—	То-	Length of levels run, feet
heridan av	40th st.	Lake Calhoun	3,62
heridan av			1,31
nelling av			2,9
outh View av			1.30
tevens av		. 32d st	3,29
ummit View place			3
uperior av			
th av. N			
homas av			
homas av		. Lake Calhoun	1,6
homas av			
th av. N			
3d av. N	Penn av		2.6
th av. S			7.8
5th st			
oth st			
7th st	Young av		
8th st			
)th st	Sheridan av		
pton av		Plymouth av	
pton av		. 52d st	
incent av			2.6
incent av		. Plymouth av	
incent av			
	44th st		
Vashburn av			
Vashburn av	Lake Calhoun	43d st	
Vashburn av			
Vashington av. N			
Villow st	Harmon Place	Grant st	
Villow av			
erxes av	Plymouth av	St. P. M. & M. Ry	
erxes av			10,9
oung av		Laurel av	
oung av	36th st	. 54th st	
enith av	Zenith av	. Aonian av	
enith av	Arra av		
enith av	36th st		11.8
Total			. *601.3

*113.935 miles

Number of grade orders	2.000
Number of surueys	957
Number of surueys.	400
Number of cross sections.	15%
Grade and lines given for 14 miles of sewers	
Grade and lines given for 10 miles of water mains	
Grade and lines given for 4 miles of paving	
Grade and lines given for 8 miles of curb	

Table No. 22.
WATER MAINS LAID PREVIOUS TO JANUARY 1, 1890.

Adams st. 4th av. N. E. 15th av. N. E. 6 136 1886 1885 1886 1								
Aldrich av Western av 4th av N. 6 304 1887 1886 563.2 Aldrich av Western av 4th av N. 6 50 1884 1885 163.2 Aldrich av 27th st. 25th st. 6 50 1884 1885 163.2 Aldrich av 27th st. 25th st. 6 50 1885 1885 163.2 Aldrich av 27th st. 25th st. 6 50 1885 1885 163.2 Aldrich av 27th st. 25th st. 6 40 1880 612.2 Aldrich av 27th st. 25th st. 6 40 1880 612.2 Aldrich av 27th st. 25th st. 6 40 1880 612.2 Aldrich av 27th st. 25th st. 6 25th st. 25th	STREET.	From-	То-		Extension No.			
Aldrich av Western av 4th av N. 6 304 1887 1886 563.2 Aldrich av Western av 4th av N. 6 50 1884 1885 163.2 Aldrich av 27th st. 25th st. 6 50 1884 1885 163.2 Aldrich av 27th st. 25th st. 6 50 1885 1885 163.2 Aldrich av 27th st. 25th st. 6 50 1885 1885 163.2 Aldrich av 27th st. 25th st. 6 40 1880 612.2 Aldrich av 27th st. 25th st. 6 40 1880 612.2 Aldrich av 27th st. 25th st. 6 40 1880 612.2 Aldrich av 27th st. 25th st. 6 25th st. 25th	Adams st	4th av. N. E	15th av. N. E	6	136	1886	1885	2 504
Aldrich av Western av 4th av N. 6 304 1887 1886 563.2 Aldrich av Western av 4th av N. 6 50 1884 1885 163.2 Aldrich av 27th st. 25th st. 6 50 1884 1885 163.2 Aldrich av 27th st. 25th st. 6 50 1885 1885 163.2 Aldrich av 27th st. 25th st. 6 50 1885 1885 163.2 Aldrich av 27th st. 25th st. 6 40 1880 612.2 Aldrich av 27th st. 25th st. 6 40 1880 612.2 Aldrich av 27th st. 25th st. 6 40 1880 612.2 Aldrich av 27th st. 25th st. 6 25th st. 25th	Adams st	15th av. N. E.	17th av. N. E.	6	266	1887	1886	795.1
Aldrich av 27th st 6 56 1884 1883 1898 1890 6122 Aldrich av 27th st 72th st 6 342 1889 1889 6122 Aldrich av 27th st 6 344 1885 1887 465.1 TO Atlantic elevator near Shingle creek. 6 6 6 8 8 8 1887 142.2 TO Atlantic elevator near Shingle creek. 6 6 6 8 8 1885 1887 142.2 Broadway st. Main st University av 8 118 1885 1881 1885 18	Aldrich av	Hawthorn av	Linden av	6	304		1886	389.5
Broadway st, Main st,	Aldrich av	4th av	6th av. N	6	223			658.2
Broadway st, Main st,	Aldrich av	27th st	28th st	6		1889		1.043.
Broadway st, Main st,	Aldrich av	6th av.N. 450 ft	to'rds8thav.N	6	344	1887	1887	465.1
Broadway st, Main st,	Alley, blocks 2	and 3 Nicollet	Island	8		1888	1887	1,120.2
Broadway st. Monroe st.				0		1889	1004	148.5
Broadway st. Monroe st.	Broadway st.	Univers'v av.	Adams st	8				
Broadway st. Monroe st.	Broadway st.	Adams st	Jefferson st	8	212			322.8
Blaisdell av. 22nd st. 26th st. 6	Broadway st.	Jenerson st	Monroe st	8	120	1885	1884	658.2
Blaisdell av. 22nd st. 26th st. 6	Broadway st.	Jackson st	Van Ruren et	8	52		1883	659.7
Blaisdell av. 22nd st. 26th st. 6	Broadway st.	Van Buren st.	Harrison st	8				324.5
Blaisdeil av 22nd st. 25th st. 6 345 1888 1887 2004.4 Blaisdeil av 25th st. 27th st. 6 332 1887 1886 6451.1 Blaisdeil av 25th st. 25th st. 8 261 1887 1886 6451.3 Bloom ton av Franklin av 25th st. 8 265 1888 1887 6.691.4 Cambridge st. Oak st. Oak st. Prospect st. 12 247 1887 1886 222.8 Cambridge st. Oak st. Oak st. Prospect st. 12 247 1887 1886 222.8 Cadar av. Wesh fon av 25th st. 6 305 1885 1885 222.8 Cedar av. Wesh fon av 25th st. 6 305 1885 1886 222.8 Cedar av. 4th st. 5th st. 6 305 1885 1886 222.8 Cedar av. 4th st. 5th st. 6 305 1885 1884 440.1 Cedar av. 5th st. Franklin av 28th st. 8 148 1886 1885 428.1 Cedar av. 5th st. Franklin av 28th st. 8 148 1886 1885 428.1 Cedar av. 28th st. 34th st. 8 349 1888 1887 1886 1885 Cedar av. 28th st. 34th st. 8 344 1886 1885 400.1 Cedar av. 28th st. 34th st. 8 344 1887 1886 1885 400.1 Central av. 4th st. 8 16 305 308.1 Central av. 4th st. 37th st. 6 6 6 1880 731.1 Central av. 4th st. 12th st. 6 6 6 1880 731.1 Central av. 1th st. 12th st. 6 6 6 1880 731.1 Chestnut av. 1th st. 12th st. 6 6 6 6 1880 731.1 Chestnut av. 1th st. 12th st. 8 50 1884 1884 232.1 Como av. 10th av. S. E. 14th st. 8 50 1884 1883 3514.1 Como av. 10th av. S. E. 14th st. 6 82 1884 1884 232.1 Como av. 10th av. S. E. 24th st. 6 82 1885 1886 3867 365.1 Colfax av. 24th st. 24th st. 6 82 1884 1884 232.1 Como av. 10th av. S. E. 24th st. 6 84 1888 1887 369.3 Cilinton av. 27th st. 48 48 48 48 48 48 48 4	B a sdell av	Franklin av	22d st	6	329	1887		610.7
Cambridge st. Oak st. Prospect st. 12 247 1887 1886 27.581.1 Cedar av . Wash'gton av 2d st	Blaisdell av	22nd st	26th st	6		1888	1887	2,004.4
Cambridge st. Oak st. Prospect st. 12 247 1887 1886 27.581.1 Cedar av . Wash'gton av 2d st		Lake et	27th St	6		1887	1886	645.1
Cambridge st. Oak st. Prospect st. 12 247 1887 1886 27.581.1 Cedar av . Wash'gton av 2d st	Bloom'ton av.	Franklin av.	28th st	8				1,937.3
Cambridge st. Oak st. Prospect st. 12 247 1887 1886 27.581.1 Cedar av . Wash'gton av 2d st	Bloom'ton av.	28th st	Lake st	8		1888		1.306.3
Cedar av Wash 'gton av 2d st. 6 6 30 1887 1886 22.88 1884 22.80 26dar av Wash 'ton av 4th st. 6 6 95 1885 1884 440 26dar av 4th st. 5th st. 6 6 42 1883 1886 22.88 26dar av 4th st. 5th st. 6 6 42 1883 1887 22.80 22.80 26dar av 5th st. Franklin av 8 349 1888 1887 22.80 22.80 26dar av 25th st. 8 148 1886 1885 460.66 26dar av 25th st. 8 148 1886 1885 22.80	Bryant av	Western av	20th av. N	6	346	1888	1887	6,691.4
Cedar av Wash fon av 4th st. 6				12	247	1887	1886	2,781.1
Cedar av. Franklin av. Sth st.	Cedar av	Wash'ton av	4th st.			1887	1886	292.8
Cedar av. Franklin av. Sth st.	Cedar av	4th st	5th st	6				440
Cedar av. Prankin av. 28th st. 8	Cedar av	5th st	Franklin av	8	349	1888	1887	2,280.1
Central av	Cedar av	Franklin av	28th st	8				4,030,6
Centralay Sth st	Central av	Main st	Ath st	8		1887	1886	3,894.6
Chicago av. 10th st. 2th st. 8 59 1884 1883 3,514. Chicago av. 24th st. Lake st. 8 59 1884 1886 3,957.9 Como av. 10th av. 8. E. 11th av. S. E. 6 82 1884 1884 237.5 Como av. 10th av. 8. E. 11th av. S. E. 6 82 1884 1884 237.5 Como av. 11th av. S. E. Qak st. 12 309 1887 1886 2,244.7 Colfax av. 24th st. 27th st. 6 419 1889 1889 1889 1919.9 Clinton av. 6rant st. 24th st. 8 341 1887 1887 3,816.9 Clinton av. 25th st. 25th st. 6 291 1887 1886 681.1 Clinton av. 25th st. 27th st. 6 347 1888 1887 3,816.9 Clinton av. 25th st. 27th st. 6 347 1888 1887 689.3 Clinton av. 27th st. 48 ft. S.28th st. 6 282 1887 1886 561.8 Clifton av. 31st st. 32dst. 6 282 1887 1886 561.8 Clifton av. 4 1887 1887 689.3 Clinton av. 31st st. 32dst. 6 282 1887 1886 561.8 Clifton av. 4 1887 1887 1887 1886 681.1 Clifton av. 5 1887 1886 681.1 Clifton av. 5 1887 1886 682.1 Clifton av. 6 1888 1889 1889 716.7 Clinton av. 31st st. 32dst. 6 282 1887 1886 561.8 Clifton av. 4 1887 1886 716.7 Clifton av. 5 1887 1886 716.7 Clipton av. 6 1887 1886 716.7 Clipton av. 6 1887 1886 716.8 Clifton av. 6 1887 1886 718.7 Clipton av. 6 1887 1886 718.8 Clifton a	Central av	4th st	8th st			*1881		
Chicago av. 10th st. 2th st. 8 59 1884 1883 3,514. Chicago av. 24th st. Lake st. 8 59 1884 1886 3,957.9 Como av. 10th av. 8. E. 11th av. S. E. 6 82 1884 1884 237.5 Como av. 10th av. 8. E. 11th av. S. E. 6 82 1884 1884 237.5 Como av. 11th av. S. E. Qak st. 12 309 1887 1886 2,244.7 Colfax av. 24th st. 27th st. 6 419 1889 1889 1889 1919.9 Clinton av. 6rant st. 24th st. 8 341 1887 1887 3,816.9 Clinton av. 25th st. 25th st. 6 291 1887 1886 681.1 Clinton av. 25th st. 27th st. 6 347 1888 1887 3,816.9 Clinton av. 25th st. 27th st. 6 347 1888 1887 689.3 Clinton av. 27th st. 48 ft. S.28th st. 6 282 1887 1886 561.8 Clifton av. 31st st. 32dst. 6 282 1887 1886 561.8 Clifton av. 4 1887 1887 689.3 Clinton av. 31st st. 32dst. 6 282 1887 1886 561.8 Clifton av. 4 1887 1887 1887 1886 681.1 Clifton av. 5 1887 1886 681.1 Clifton av. 5 1887 1886 682.1 Clifton av. 6 1888 1889 1889 716.7 Clinton av. 31st st. 32dst. 6 282 1887 1886 561.8 Clifton av. 4 1887 1886 716.7 Clifton av. 5 1887 1886 716.7 Clipton av. 6 1887 1886 716.7 Clipton av. 6 1887 1886 716.8 Clifton av. 6 1887 1886 718.7 Clipton av. 6 1887 1886 718.8 Clifton a	Central av	8th st	9th st	6 to 8				284.
Chicago av. 10th st. 2th st. 8 59 1884 1883 3,514. Chicago av. 24th st. Lake st. 8 59 1884 1886 3,957.9 Como av. 10th av. 8. E. 11th av. S. E. 6 82 1884 1884 237.5 Como av. 10th av. 8. E. 11th av. S. E. 6 82 1884 1884 237.5 Como av. 11th av. S. E. Qak st. 12 309 1887 1886 2,244.7 Colfax av. 24th st. 27th st. 6 419 1889 1889 1889 1919.9 Clinton av. 6rant st. 24th st. 8 341 1887 1887 3,816.9 Clinton av. 25th st. 25th st. 6 291 1887 1886 681.1 Clinton av. 25th st. 27th st. 6 347 1888 1887 3,816.9 Clinton av. 25th st. 27th st. 6 347 1888 1887 689.3 Clinton av. 27th st. 48 ft. S.28th st. 6 282 1887 1886 561.8 Clifton av. 31st st. 32dst. 6 282 1887 1886 561.8 Clifton av. 4 1887 1887 689.3 Clinton av. 31st st. 32dst. 6 282 1887 1886 561.8 Clifton av. 4 1887 1887 1887 1886 681.1 Clifton av. 5 1887 1886 681.1 Clifton av. 5 1887 1886 682.1 Clifton av. 6 1888 1889 1889 716.7 Clinton av. 31st st. 32dst. 6 282 1887 1886 561.8 Clifton av. 4 1887 1886 716.7 Clifton av. 5 1887 1886 716.7 Clipton av. 6 1887 1886 716.7 Clipton av. 6 1887 1886 716.8 Clifton av. 6 1887 1886 718.7 Clipton av. 6 1887 1886 718.8 Clifton a	Central av	9th st	3rd av. N. E.		6			731
Chicago av. 10th st. 24th st. 8	Chestnut av	11th St	12th St	6			1887	352.2
Como av. 10th av. S. E. 11th av. S. E. 6 82 1885 1886 232.5 Como av. 10th av. S. E. 11th av. S. E. 6 82 1884 1884 232.5 Como av. 11th av. S. E. Railroad. 6 82 1884 1884 232.5 Como av. 11th av. S. E. Oak st. 12 309 1887 1886 22.44.7 Colfax av. 24th st. 27th st. 6 419 1889 1889 1887 3,816.9 Clinton av. 25th st. 25th st. 25th st. 6 291 1887 1886 618.1 Clinton av. 25th st. 27th st. 6 419 1889 1889 1889 Clinton av. 25th st. 27th st. 6 419 1887 1887 689.3 Clinton av. 27th st. 48 ft. S. 28th st. 6 483 1889 1889 716.7 Clinton av. 31st st. 32d st. 6 282 1887 1886 561.8 Clifton av. 31st st. 32d st. 6 282 1887 1886 561.8 Clifton av. 40 Groveland av. 6 480 1888 1887 716.7 Sp. 1886 1881 1887 1887 1886 1881 1887 1886 1881 1887 1886 1881 1887 1886 1881 1887 1886 1881 1887 1886 1881 1881	Chicago av	10th st	24th st	8		1884	1883	
Colitax av	Chicago av	24th st	Lake st	8	231	1886	1886	3,957.9
Colitax av	Como av	10th av. S. E	11th av. S. E	6	82		1884	237.5
Colitax av	Como av	11th av S.E	Kallroad			1884		232.1
Clinton av. Grant st. 24th st	COITAX av	24th St	27th St	6				2,244.7
Clinton av. 25th st. 25th st. 6 6 327 1887 1886 618.1 Clinton av. 26th st. 27th st. 6 348 1889 1889 716.7 Clinton av. 27th st. 48 ft. S. 28th st. 6 483 1889 1889 716.7 Clinton av. 31st st. 32d st. 6 282 1887 1886 561.8 Clifton av. Vine Place. Clifton Place. 6 348 1888 1887 1886 215.3 Division st. 5th av. S. E. 16 1886 1888 1889 215.3 Division st. 5th av. S. E. 16 1886 1888 1889 215.3 Division st. 5th av. S. E. 17 1886 1886 1888 1889 215.3 Division st. 6 1888 1889 215.3 Division st. 6 1888 1889 215.3 Division st. 6 1888 1889 1889 215.3 Division st. 6 1888 1889 1889 1889 215.3 Division st. 6 1888 1889 1889 1889 1889 1889 1889 18	Clinton av	Grant et	94th et	8		1887	1887	3.816.9
Clifton Place. Clifton av. Groveland av 6 480 1888 1889 215.3 Division st. 5th av. S. E. Pierce st. 6 84 1884 1884 760.8 Division st. Pierce st. 13th av. S. E. 12 243 1888 1886 760.8 Division st. Harrison st. Taylor av. 12 284 1887 1886 156.9 Dupont av. 6th av.N. 150 ft to rds 8th av N 8 352 1887 1886 179.1 Dupont av. 16th av. N. 16th av. N. 8 353 1888 1887 2.285.2 Dupont av. 16th av. N. 25th av. N. 8 351 1888 1887 2.285.2 Dupont av. 26th st. 27th st. 8 351 1888 1887 642.3 Dupont av. 27th st. 33dst. 8 262 1887 1886 3.576. Elwood av. 6th av. N. 1rving av. 6 334 1887 1886 815.6 Emerson av. 6th av. N. 16th av. N. 6 136 1885 1887 1886 815.6 Emerson av. N. 1ine lt.14,bk 28. Gale's sub. 20th av. N. 6 420 1888 1888 801.3 Erie av. Lyndale av. Hennepin av. 6 248 1887 1886 409.1 Sth av. N. 5th st. Lyndale av. 6 248 1887 1886 409.1 Sth av. N. 5th st. Lyndale av. 6 336 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. Elwood av. Logan av. 6 336 1888 1887 1886 409.1 Sth av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 415.6 Sth av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 Sth av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 Sth av. N. Hennepin av. Ist av. ("1881" "1881" "1886 2.411.3 Store av. Hennepin av. Ist av. ("1881" "1881" "1886 2.411.3 Store av. Hennepin av. 18t av. ("1881" "1881" "1886 2.411.3	Clinton av	25th st	26th st	6				618.1
Clifton Place. Clifton av. Groveland av 6 480 1888 1889 215.3 Division st. 5th av. S. E. Pierce st. 6 84 1884 1884 760.8 Division st. Pierce st. 13th av. S. E. 12 243 1888 1886 760.8 Division st. Harrison st. Taylor av. 12 284 1887 1886 156.9 Dupont av. 6th av.N. 150 ft to rds 8th av N 8 352 1887 1886 179.1 Dupont av. 16th av. N. 16th av. N. 8 353 1888 1887 2.285.2 Dupont av. 16th av. N. 25th av. N. 8 351 1888 1887 2.285.2 Dupont av. 26th st. 27th st. 8 351 1888 1887 642.3 Dupont av. 27th st. 33dst. 8 262 1887 1886 3.576. Elwood av. 6th av. N. 1rving av. 6 334 1887 1886 815.6 Emerson av. 6th av. N. 16th av. N. 6 136 1885 1887 1886 815.6 Emerson av. N. 1ine lt.14,bk 28. Gale's sub. 20th av. N. 6 420 1888 1888 801.3 Erie av. Lyndale av. Hennepin av. 6 248 1887 1886 409.1 Sth av. N. 5th st. Lyndale av. 6 248 1887 1886 409.1 Sth av. N. 5th st. Lyndale av. 6 336 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. Elwood av. Logan av. 6 336 1888 1887 1886 409.1 Sth av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 415.6 Sth av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 Sth av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 Sth av. N. Hennepin av. Ist av. ("1881" "1881" "1886 2.411.3 Store av. Hennepin av. Ist av. ("1881" "1881" "1886 2.411.3 Store av. Hennepin av. 18t av. ("1881" "1881" "1886 2.411.3	Clinton av	20th St	27th St	6				
Clifton Place. Clifton av. Groveland av 6 480 1888 1889 215.3 Division st. 5th av. S. E. Pierce st. 6 84 1884 1884 760.8 Division st. Pierce st. 13th av. S. E. 12 243 1888 1886 760.8 Division st. Harrison st. Taylor av. 12 284 1887 1886 156.9 Dupont av. 6th av.N. 150 ft to rds 8th av N 8 352 1887 1886 179.1 Dupont av. 16th av. N. 16th av. N. 8 353 1888 1887 2.285.2 Dupont av. 16th av. N. 25th av. N. 8 351 1888 1887 2.285.2 Dupont av. 26th st. 27th st. 8 351 1888 1887 642.3 Dupont av. 27th st. 33dst. 8 262 1887 1886 3.576. Elwood av. 6th av. N. 1rving av. 6 334 1887 1886 815.6 Emerson av. 6th av. N. 16th av. N. 6 136 1885 1887 1886 815.6 Emerson av. N. 1ine lt.14,bk 28. Gale's sub. 20th av. N. 6 420 1888 1888 801.3 Erie av. Lyndale av. Hennepin av. 6 248 1887 1886 409.1 Sth av. N. 5th st. Lyndale av. 6 248 1887 1886 409.1 Sth av. N. 5th st. Lyndale av. 6 336 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 409.1 Sth av. N. Elwood av. Logan av. 6 336 1888 1887 1886 409.1 Sth av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 Sth av. N. 6irad av. Elwood av. 8 236 1888 1887 1886 415.6 Sth av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 Sth av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 Sth av. N. Hennepin av. Ist av. ("1881" "1881" "1886 2.411.3 Store av. Hennepin av. Ist av. ("1881" "1881" "1886 2.411.3 Store av. Hennepin av. 18t av. ("1881" "1881" "1886 2.411.3	Clinton av	31st st	32d st		282			
Clifton Place, Clifton av. Groveland av Division st. 5th av. S. E. Pierce st. 6				6	348	1888	1887	1.871.4
Division st.	Clifton Place.	Clifton av	Groveland av		480		1889	215.3
Division st. Harrison st. Taylor av. 12 284 1888 1886 078.8 Dupont av. 6th av. N. 150 ft to'rds 8th av N 8 352 1887 1886 179.1 Dupont av. 16th av. N. 16th av. N. 8 353 1888 1887 2.2285.2 Dupont av. 16th av. N. 25th av. N. 8 351 1888 1887 642.3 Dupont av. 27th st. 33d st. 8 361 1888 1887 642.3 Dupont av. 27th st. 33d st. 8 361 1888 1887 642.3 Dupont av. 27th st. 33d st. 8 362 1887 1886 3.625. Elwood av. 6th av. N. 1rving av. 6 334 1887 1886 815.6 Emerson av. 6th av. N. 16th av. N. 6 136 1886 1885 815.6 Emerson av. N. 1ine lt.14,bk 28, Gale's sub. 20th av. N. 6 1354 1888 1887 814.6 Emerson av. 20th av. N. 22d av. N. 6 335 1887 1886 815.6 Emerson av. 20th av. N. 22d av. N. 6 335 1887 1886 810.3 Emerson av. 20th av. N. 22d av. N. 6 335 1887 1886 810.3 Erie av. Lyndale av. Hennepin av. 6 248 1888 1888 801.3 Sth av. N. 5th st. Lyndale av. 6 248 1887 1886 409.1 Sth av. N. 5th st. Lyndale av. 6 248 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 336 1888 1887 1886 409.1 Sth av. N. 6irad av. Elwood av. 8 336 1888 1887 1886 409.1 Av. Elwood av. Logan av. 6 337 1886 395.8 Sth av. N. 6irad av. Logan av. 6 337 1886 1885 2.058.8 h av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 h av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 h av. N. Elwood av. Logan av. 6 337 1886 1885 2.058.8 h av. N. Hennepin av. Ist av. ("1881" 1886 2.411.3 Brie av. N. Hennepin av. Ist av. ("1881" 1886 2.411.3 Brie av. N. Hennepin av. 18t av. ("1881" 1886 2.411.3 Brie av. N. Hennepin av. 18t av. ("1881" 1886 2.411.3 Brie av. N. Hennepin av. 18t av. ("1881" 1886 2.411.3 Brie av. N. Hennepin av. 18t av. ("1881" 1886 2.411.3 Brie av. N. Hennepin av. 18t av. ("1881" 1881" 1886 2.411.3						(1997)	1884	760.8
Division st. Harrison st. Taylor av. 12 284 1887 1886 078.8 Dupont av. 6th av.N. 150 ft to'rds 8th av N. 8 353 1888 1887 2.285.2 Dupont av. 16th av. N. 26th av. N. 8 251 1887 1886 3.876. Dupont av. 26th st. 27th st. 8 351 1888 1887 622.3 Dupont av. 27th st. 33d st. 8 262 1887 1886 3.276. Elwood av. 6th av. N. 19th av. 6 334 1887 1886 3.265. Elwood av. 8th av. N. 19th av. N. 6 335 1887 1886 3.265. Emerson av. 6th av. N. 16th av. N. 6 335 1887 1886 815.6 Emerson av. 8th av. N. 16th av. N. 6 176 1886 185.6 Emerson av. 20th av. N. 6 413 1888 1887						1 1888	1886	
Dupont av. 11th av. N. 16th av. N. 8 353 1888 1887 2.285.2 Dupont av. 26th st. 27th st. 8 351 1887 1886 3.876. Dupont av. 26th st. 27th st. 8 351 1888 1887 642.3 Dupont av. 27th st. 33d st. 8 262 1887 1886 3.256. Elwood av. 6th av. N. 10th av. N. 6 335 1887 1886 815.6 Emerson av. 8th av. N. 10th av. N. 6 335 1887 1886 815.6 Emerson av. N.line lt.14,bk 28. Gale's sub. 20th av. N. 6 413 1888 1887 840.7 Emerson av. 20th av. N. 6 441 1888 1887 814.6 22.2 Emerson av. 22th av. N. 6 441 1888 1887 845.2 886 801.3 886 801.3 886 801.3 <	Division st	Harrison st	Taylor av		284	1887		978.8
Emerson av 20th av. N. 22d av. N. 6 354 1888 1887 814.6 Emerson av 22d av. N. 22d av. N. 6 420 1888 1887 814.6 Emerson av 22d av. N. 24th av. N. 6 420 1888 1888 801.3 Erie av. Lyndale av. Hennepin av. 6 255 1887 1886 409.1 8th av. S. Wash. av. 4th st. 6 248 1887 1886 409.1 8th av. N. 5th st. Lyndale av. 6 248 1887 1886 395.8 8th av. N. Fremont av. Girard av. 8 293 1887 1886 395.8 8th av. N. Girad av. Logan av. 6 337 1887 1886 11.19.5 h av. N. Elwood av. Logan av. 6 337 1887 1886 415.6 h av. N. E. University av Sibley st. 8 182 1886 1885 2.058.8 h av. S. 4th st. 10th st. 6 273 1887 1886 2.411.3 h st. N. Hennepin av. 1st av. (2 4181	Dupont av			8	352	1887	1886	179.1
Emerson av 20th av. N. 22d av. N. 6 354 1888 1887 814.6 Emerson av 22d av. N. 22d av. N. 6 420 1888 1887 814.6 Emerson av 22d av. N. 24th av. N. 6 420 1888 1888 801.3 Erie av. Lyndale av. Hennepin av. 6 255 1887 1886 409.1 8th av. S. Wash. av. 4th st. 6 248 1887 1886 409.1 8th av. N. 5th st. Lyndale av. 6 248 1887 1886 395.8 8th av. N. Fremont av. Girard av. 8 293 1887 1886 395.8 8th av. N. Girad av. Logan av. 6 337 1887 1886 11.19.5 h av. N. Elwood av. Logan av. 6 337 1887 1886 415.6 h av. N. E. University av Sibley st. 8 182 1886 1885 2.058.8 h av. S. 4th st. 10th st. 6 273 1887 1886 2.411.3 h st. N. Hennepin av. 1st av. (2 4181	Dupont av	16th av. N	26th av N	8	353			2.285.2
Emerson av 20th av. N. 22d av. N. 6 354 1888 1887 814.6 Emerson av 22d av. N. 22d av. N. 6 420 1888 1887 814.6 Emerson av 22d av. N. 24th av. N. 6 420 1888 1888 801.3 Erie av. Lyndale av. Hennepin av. 6 255 1887 1886 409.1 8th av. S. Wash. av. 4th st. 6 248 1887 1886 409.1 8th av. N. 5th st. Lyndale av. 6 248 1887 1886 395.8 8th av. N. Fremont av. Girard av. 8 293 1887 1886 395.8 8th av. N. Girad av. Logan av. 6 337 1887 1886 11.19.5 h av. N. Elwood av. Logan av. 6 337 1887 1886 415.6 h av. N. E. University av Sibley st. 8 182 1886 1885 2.058.8 h av. S. 4th st. 10th st. 6 273 1887 1886 2.411.3 h st. N. Hennepin av. 1st av. (2 4181	Dupont av	26th st	27th st	8				
Emerson av 20th av. N. 22d av. N. 6 354 1888 1887 814.6 Emerson av 22d av. N. 22d av. N. 6 420 1888 1887 814.6 Emerson av 22d av. N. 24th av. N. 6 420 1888 1888 801.3 Erie av. Lyndale av. Hennepin av. 6 255 1887 1886 409.1 8th av. S. Wash. av. 4th st. 6 248 1887 1886 409.1 8th av. N. 5th st. Lyndale av. 6 248 1887 1886 395.8 8th av. N. Fremont av. Girard av. 8 293 1887 1886 395.8 8th av. N. Girad av. Logan av. 6 337 1887 1886 11.19.5 h av. N. Elwood av. Logan av. 6 337 1887 1886 415.6 h av. N. E. University av Sibley st. 8 182 1886 1885 2.058.8 h av. S. 4th st. 10th st. 6 273 1887 1886 2.411.3 h st. N. Hennepin av. 1st av. (2 4181	Dupont av	27th st	33d st	8	262	1887	1886	3.625.
Emerson av 20th av. N. 22d av. N. 6 354 1888 1887 814.6 Emerson av 22d av. N. 22d av. N. 6 420 1888 1887 814.6 Emerson av 22d av. N. 24th av. N. 6 420 1888 1888 801.3 Erie av. Lyndale av. Hennepin av. 6 255 1887 1886 409.1 8th av. S. Wash. av. 4th st. 6 248 1887 1886 409.1 8th av. N. 5th st. Lyndale av. 6 248 1887 1886 395.8 8th av. N. Fremont av. Girard av. 8 293 1887 1886 395.8 8th av. N. Girad av. Logan av. 6 337 1887 1886 11.19.5 h av. N. Elwood av. Logan av. 6 337 1887 1886 415.6 h av. N. E. University av Sibley st. 8 182 1886 1885 2.058.8 h av. S. 4th st. 10th st. 6 273 1887 1886 2.411.3 h st. N. Hennepin av. 1st av. (2 4181	Elwood av	oth av. N	irving av				1886	571.8
Emerson av 20th av. N. 6 413 1888 1888 452.2 Emerson av 20th av. N. 22d av. N. 6 354 1888 1887 814.6 Emerson av 22d av. N. 24th av. N. 6 420 1888 1888 801.3 Erie av. Lyndale av. Hennepin av. 6 255 1887 1886 409.1 8th av. S. Wash. av. 4th st. 6 248 1887 1886 1,590.3 8th av. N. Fremont av. Girard av. 8 293 1887 1886 395.8 8th av. N. Girad av. Lelwood av. 8 336 1887 1886 395.8 8th av. N. Elwood av. Logan av. 6 337 187 1886 415.6 h av. N. Universitv av. 18ble yst. 8 182 186 1885 2,058.8 h av. S. 4th st. 10th st. 6 273 1881 380. 2,411.3	Emerson av	6th av. N.	16th av. N		355 176	1886	1885	
20th av. N. 6	Emerson av.	N.line lt.14,bk	28, Gale's sub.		1.0	1000	1000	4,007.4
8th av. N. Girad av. Elwood av. 8 356 1888 1887 1,119.5 h av. N. Elwood av. Logan av. 6 337 1887 1886 415.6 h av. N. University av. Sibley st. 8 182 1886 1885 2,058.8 h av. S. 4th st. 10th st. 6 273 1887 1886 2,411.3 h st. N. Hennepin av. 1st av. 6 *1881 380.	T	2041 37	20th av. N					
8th av. N. Girad av. Elwood av. 8 356 1888 1887 1,119.5 h av. N. Elwood av. Logan av. 6 337 1887 1886 415.6 h av. N. University av. Sibley st. 8 182 1886 1885 2,058.8 h av. S. 4th st. 10th st. 6 273 1887 1886 2,411.3 h st. N. Hennepin av. 1st av. 6 *1881 380.	Emerson av	20th av. N	outh or N			1888	1887	814.6
8th av. N. Girad av. Elwood av. 8 356 1888 1887 1,119.5 h av. N. Elwood av. Logan av. 6 337 1887 1886 415.6 h av. N. University av. Sibley st. 8 182 1886 1885 2,058.8 h av. S. 4th st. 10th st. 6 273 1887 1886 2,411.3 h st. N. Hennepin av. 1st av. 6 *1881 380.	Erie av	Lyndale av	Hennenin av					
8th av. N. Girad av. Elwood av. 8 356 1888 1887 1,119.5 h av. N. Elwood av. Logan av. 6 337 1887 1886 415.6 h av. N. University av. Sibley st. 8 182 1886 1885 2,058.8 h av. S. 4th st. 10th st. 6 273 1887 1886 2,411.3 h st. N. Hennepin av. 1st av. 6 *1881 380.	8th av. S	Wash. av	th st			*1881	1000	
8th av. N. Girad av. Elwood av. 8 356 1888 1887 1,119.5 h av. N. Elwood av. Logan av. 6 337 1887 1886 415.6 h av. N. University av. Sibley st. 8 182 1886 1885 2,058.8 h av. S. 4th st. 10th st. 6 273 1887 1886 2,411.3 h st. N. Hennepin av. 1st av. 6 *1881 380.	8th av. N	5th st	Lyndale av	6	248	1887		1,590.3
h st. N. Hennepin av. 1st av. 6 2/3 1887 1886 2,411.3 380.	8th av. N	Fremont av	Girard av		293			
h st. N. Hennepin av. 1st av. 6 2/3 1887 1886 2,411.3 380.	h av. N	Elwood av	Logan av				1886	1,119.5
h st. N. Hennepin av. 1st av. 6 2/3 1887 1886 2,411.3 380.	h av. N. E	University av	Sibley st	8	182	1886	1885	2,058.8
n st. N Hennepin av. Ist av 6 *1881 380.	h av. S	4th st	10th st	6	273	1887	1886	2,411.3
	n st. N	nennepin av.	ist av			*1881		380.



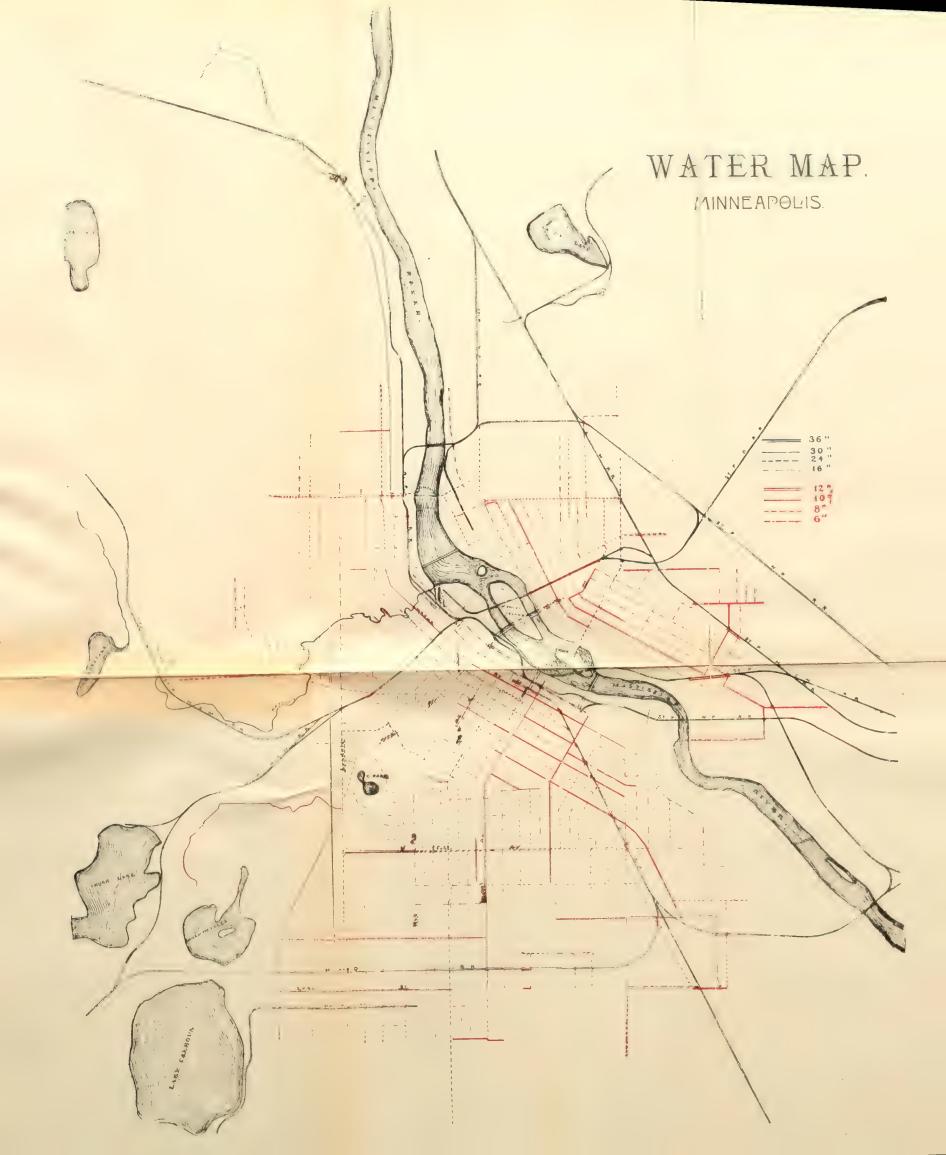


Table No. 22-Continued.

STREET.	From-	То—	Size— inches.	Extension No.	Year laid.	Taxes	Length— feet.
8th et S	Hennepin av.	Nicollet av	6	132	1886	1885	925.5
04h at 0	Nicellot ov	5th or C	0	312	1886) 1887 }	1886	824.1
stn st. S	Niconet av	oth av. S	- 6		11887		1,286.3
8th st. S	5th av	6th av	12 12	422 414	1889 1888	1888 1888	380.9 410.2
8th st. S	7th av	11th av	12	423	1889	1888	1,644.
8th st. S	11th av	16th av	12 12		*1881		2,051.
8th st. S	16th av	Cedar av	12	421	*1881	1888	2,051. 1,200.
8th st S E	Central av	3d av	6	240	1889 1887	1888	370.5 826.5
8th st. S. E	3d av	5th av	6	555	1888	1887	895.
8th st. S. 1th st. S. 1th av. N. 1th av. N. 1th av. S.	5th st	Emerson av	6	178 249	1886	1885	2,053.2
lith av. N	Emerson av	Fremont av	6 12		1887 *1881	1886	406.6 2,901.
11th av. S	8th st	Franklin av	12	14	1882		2,440.
11th av. S	Franklin av	24th st	12	164	1886	1885	1.275.6
11th av. N. E	Sibley st	Main st	8	184 340	1886 1886	1885	1,191.1
11th st. N.	1st av	Western av	6	940	*1881	1887	379.9 360.
11th st. S	Hennepin av.	Harmon pl'c	6	73	1884	1884	307.
11th st. S	Harmon pl'c	74 N	6	86	1884	1884	103.
11th st. S	2d st. 8th st Franklin av Ist av 1st av Hennepin av Harmon pl'c Nicollet av 3d av	1st av	6	94 134	1885 1886	1884 1885	888.8 418.4
11th st. S	3d av	4th av	8 8	358	1888	1887	393.6
11th st. S	4th av	5th av	8	326	1887	1886	368.2
18th av. S	Franklin av	24th st.	6 6	152 357	1886 1888	1885 1887	401.7 1,310.3
18½ av. N. E	3d av	Harrison st	8	235	1887	1886	1,284.7
Franklin av	Nicollet av	Lyndale av	12	296	1887	1886	2,594.6
Franklin av	Nicollet av	Portland av	8 6	101 49	1885 1884	1884 1883	2,665.5 769.7
Franklin av	Park av	Min'haha av	8	102	1885	1884	5,311.8
Franklin av	Min'haha av	25th av. S	8 6	71	1884	1883	1,970.9
Franklin av	24th av. S	22th av. S	6	105	1885	1884	201.
1st av. N	River	1st st.	6 4	202	1886 *1881	1885	1,667.5
1st av. N	Wash. av	5th st	6	104	*1881		1.286.
1st av. N	5th st	Western av	6 6	104 359	1885 1888		820. 412.
1st av. N	Monroe st. Nicollet av. Nicollet av. Portland av. Park av. Min'haha av. 24th av. S. 6th av. N. River. Wash. av. 5th st. Western av	11th st	6	903	*1881		842.
1st av. N	11th st	M.& St. L. r'nd	1				
1st av S	Wash. av	house	6 6		*1881 *1881		1,061. 455.
1st av. S	Wash. av	Center B. 63	6		*1881		605.5
1st av. S	Center B 63	7th st	8	40	1884	1883	1.418.7
1st av. S	7th st	10th st	6 24	313	1887 1889	1886	1,245.5 1,047.3
1st av. S	22d st	24th st	6	433 227	1886	1888 1886	578.4
1st av. S	24th st	33d st	6	288	1887	1886	5,860.9
1st st	2d av. S	3d av. N	6 6	35	*1881		2,104.
1st st. N	3d av	4th av	6 -	35	1883 1884		267.5 468.
1st st. N	4th av	Plymouth av.	6	115	1885	1884	2,455.8 2,100.
1st st. S	Pump house	Hennepin av.	16	26 174 28	1883	1883	2,100.
4th av. N. E	Main st	University av	8 8 6 6	28	1886 1883	1885	643.5 801.
4th av. S	Wash. av	6th st	6	219	1885	1885	1,617.8
4th av. S	6th st	10th st	6	420	1888	1888	1,641.1
4th av. S	16th st	24th st	6 6		*1881 *1881	• • • • • • • • • • • • • • • • • • • •	1,725.5 2,922.
4th av. S	24th st	25th st	6	141	1886	1885	715.5
4th av. S	25th st	26th st	6	367	1887	1887	617.1
4th av. S	Hennenin av	1st av	6	477 305	1889 1886	1888 1886	596.7 411.1
4th st. N.	1st av	3d av	6	158	1886	1885	786.1
4th st. N	6th av	8th av	6		*1881		744.
4th st. N	Plymouth av	15th av	6	107	1881	1884	2,400.3 869.5
4th st. N.	15th av	16th av	6	31	1883		384.3
4th st. N	16th av	20th av	6	252	1887	1886	1,432.
4th st. N. E	Central av	Ath av	6	360 90	1887 1885	1887 1884	369.1 1,727.5
1st av S	4th av	6th av	6	191	1886	1885	838.2
4th st. N. E	6th av	Broadway st.	6	318	1887	1886	1,600.8
4th st. S	Central av 4th av 6th av Hennepin av Nicollet av	Nicollet av	8	479	1888 1884	1889 1883	475.8 879.4
2011 801 001	Triconet av	*Date	on to 1991	40	1004	1000	079.4

Table No. 22-Continued.

STREET.	From-	То-	Size— inches.	Extension No.	Year laid.	Taxes	Length- feet.
th st. S	2d av	6th av	6		*1881		1,619
th st. S	6th av	11th av	12 16	427 361	1889	1888	2,040 2,300 1,635
th st. S	Cedar av	Oedar av	6	188	1888 1886	1887 1885	2,300 1,639
th st. S. E	Cedar av Central av	14th av. S. E	8		*1881		5.78
tn st. s. E	lotn av	Oak st	12	51	1884	1883	1,747
ın av. S			16	78	*1881		418
th av. S	Pump house	wasn. av	16	64	1884 1884		798 1,22
th over S			24 24	67	1884		3,849
th av. S	9th st	19th st	24 12	310	1887	1885	3,08
th av. S	9th st	24th st	12	156	1886	1885	1,699
th av. S.E	7th st	Division st	6	11	*1881 1882		389 1,325
th st. N	4th av	11th av	6	36	1884		2,89
th st. S	4th av. Hennepin av. Nicollet av 2d av.	Nicollet av	6	194	1885	1885	589
th st. S	Nicollet av	2d av	8	47	1884	1883	84
th st. S th st. S	2d av	3d av	8 6	366 33	1888 1883	1887	$\begin{array}{c} 348. \\ 2,168 \end{array}$
th st. S	11th av	Cedar av	12		*1881		2,10 $2,51$
h st. S	Cedar av	19th av	$\frac{12}{6}$		*1881		40
th st. S	19th av	22d av	6	43	1883	1884	1,34
h st. N E	6th av. Hth av. Cedar av. 19th av. Central av. 4th av.	4th av	6	181	*1881	1885	1,64
h st. N E h st. S E	Central av	5th av	8 12	242	$\frac{1886}{1887}$	1885 1886	2,19 $1,86$
h st. S E	Central av 5th av	8th av	6	272	*1881	1000	1,01
h st. S E	8th av 14th av	14th av	6	13	1882		2,75
h st. S E	14th av	16th av	12	495	1889	1889	82
th av. S	Wash'gton av	Bluff st	6	20 112	1882 1885	1884	1,35 1,06
th av. S	8th st 18th st	13th st Franklin av	6	430	1889	1888	92
th av, S	26th st		8	271	(1887)	1886) 29
th or CF	4th st	University or	8		1888 5 *1881	1000	2,46
th av. S E	4th St	Como av	12	435	1889	1888	2,22
th st	Willow st	Spruce place.	6	205	1886	1885	22
th st	1st av. S	3d av. S,	9.4	522	1889	1889	96
th st	Portland av Wash'gton av Wash'gton av Wash'gton av	11th av. S	6	38	1883	1885	1,78
otn av. N	Wash'gton av	3d st	$\frac{6}{6}$	153 362	1886 1888	1887	83 33
oth av. S	Wash'gton av	4th st	6	165	1886	1885	83
ин av. в	4th St	5th st	6	3	1881		38 1,25
th av, S	5th st	8th st	8 8	186	1886	1885	1,25
th av. S th av. S E	8th st 5th st	Franklin av 8th st	$\overset{\circ}{6}$	87 155	1885 1886	1884 1885	1,78 1.22
				i	(1887)		1,22
th av. S E	8th st	Como av	6	365	11888	1887	1 83
th av. S E	Como av	Talmadge av.	6	327 364	1887	1886	62
th av. S E	Nicollet av	Division st	6	57	1888 1884	1887 1883	67 37
th st	Vine place	Spruce place.	6	127	1885	1885	39
th st	3d av. S	5th av. 8	6	363	1888		95
th st	Nicollet av Vine place 3d av. S Portland av 26th st 5th av. N 6th av. N Franklin av	Park av	6 6	135	1886	1885	65
arneid av	5th av N	6th av N	6	368 330	1887 1887	1886 1886	64 57
irard av	6th av. N	8th av. N	6	200	1886	1885	70
rand av	Franklin av Lake st Stevens av 2d av. S	24th st	6	297	1887	1886	1,28
rand av	Lake st	31st st	6	369	1888	1887	62
$\operatorname{rant}\operatorname{st}\ldots\ldots$	2d av S	3d av. S	6	37 160	1884 1886	1885	45 31
roveland av	Hennepin av.	ninside piace	12 10	122	1886	1885	1,10
armon place	11th st Maple st	Maple st	6	85	1884	1884	1,91
armon place	Maple st	Hennepin av.	6	146	1885	1885	1 27
arriet av	Franklin av 25th st	24th st 33d st	6 8	298 260	1887 1887	1886 1886	1,27 5,23
	Division st		24	239	1 1887 1	1886	{ 2,45 25
arrison st	Division st	Broadway st.			1888 (25
arrison st	Broadway st.	18½ av. N. E	24 24	438 236	1889 1888	1888 1886	1,50 2,26
arrison st	9th st. N	12th st. N	16	439 & 440	1888	1000	1,11
awth'rn av.	12th st	Lyndale av	24	314	1887	1886	1,86
awth'rn av.	Lyndale av	Bryant av	6	24	1883		66
ennepin av.	Broadway st. 18½ av. N. E 9th st. N 12th st. Lyndale av River Spruce place	Spruce place.	8	111	*1881	1884	5,99° 73
ennepin av.	Spruce place. Maple st. Oak Grove st.	Oak Grove st	8	111 211	1885 1886	1884	1,52

Table No. 22-Continued.

STREET.	From—	То	Size— lake.	Extension No.	Year laid.	Taxes of	Length-feet.
Hennepin av.	Groveland av	33d st.	12	225	1887	1886	9,513.1
Hiawatha av.	24th st	27th st	8	530	1889	1000	2,140.7 2,180.6
Hiawatha av.	24th st 27th st	Lake st	8	276	1888		2,180.6
Highland av	Royalston av.	B4. O. Lake ad	6	18	1882	1004	1,120.
Highland av Hillside av	Groveland av	Lyndale av Mt. Curve av.	6 10	74 123	1884 1886	1884 1885	475.3 422.5
Humboldt av.	5th av. N	6th av. N	16	312	1887	1886	597.2
Irving av	Western av.	6th av. N	6	311	1887	1886	1,256.8
Irving av	8th av. N 20th av. N	6th av. N 10th av. N	6	371	1888	1887	295.
Irving av Island av		21st av. N Al'y 119,b2,Nic	I. 8	370 210	1888 1886	1887 1885	234.6 1,683.7
Jackson st	3d av. N. E	Broadway st.	8	53	1884	1883	1,754.3
Jefferson st	Summer st	Broadway st . 13th av. N. E. 5th av. N	8	441	1889	1888	1,105.5
James av	Western av	5th av. N	6	442	1889	1888	610.5
Jefferson st Kenwood bou.	Newton av	17th av. N. E	10	372 231	1888 1886	1888	1,863.6 681.7
Kenwood bou.	Newton av W.ta'kM&StL	Lake of I.boul	10	331	1887	1886	3,076.
Knox av	6th av. N 10th av. N	8th av. N 12th av. N	6	201	1886	1885	763.8
Knox av	10th av. N	12th av. N	6	373	1888	1887	714.1
Knox av Lake st	12th av, N	Twd. Plym.av	6	443 168	1889 1886	1889 1885	295. 6,550.2
Lake st	Chicago av	3d av. S 9th av. S	12 12	283	1887	1886	345.7
Lake st	27th av. S	Hiawatha av.	12	275	1887	1886	1,382.7
Laurel av	Hennepin av.	Lyndale av	6	375	*1881		1.318.
Laurel av	Lyndale av	Colfax av	6	19	1888 1882	1887	959.7 1,060.
Linden av	12th st			1	(1886)	*******	
Linden av	16th st	Aldrich av	6	226	1 1887 (1886	1,006.3
Lindley av	19th st	Ridgewood av	8	197	1886	1885	186.5
Lindley av	Lake st 8th av. N	32d st	6	374 376	1888 1888	1887 1887	1,348.3 1,925.4
Logan av		Plymouth av.			1 1887	1	5,897.7
Lyndale av	Highland av		16	250	1888	1886	120.8
Lyndale av	20th av. N	29th av. N	16	444	1889	*******	3,743.2
Lyndale av	Highland av.		16	203	1886 (1887)	1885	1,165. 1,374.6
Lyndale av	Western av	Hawthorn av	16	253	1888	1886	285.2
Lyndale av	Laurel av	Hawthorn av.	24	446	1889		369.3
Lyndale av	Laurel av	Erie av	24	254	1887	1886	693.1
Lyndale av	Erie av 24th st	24th st	24 24	445 320	1889 1887	1888 1886	4,717. 1,955.1
Lyndale av	Lake st	32d st	8	263	1887	1886	1,264.8
Lyndale av	27th st	Lake st	8	142	1886	1885	1,938.2
Madison st	Broadway st.	Summer st	6	204	1886	1885	661.9
Madison st	4th av N E	4th av. N. E 3d av. N. E	$\frac{6}{12}$	315 316	1887 1887	1886 1886	1,327.1 170.7
Main st. N. E.	Central av	7th av	6	377	1888	1887	3,178.8
Main st. N. E.	7th av	Broadway st.	6	328	1887	1886	1,574.8
Main st. N. E.	Broadway st.	13th av	8	119	1885	1884	823.6
Main st. N. E.	13th av	18th av 3d av	8	380	1888 1881	1887	1,852.8 360.
Main st. S. E. Marshall av	4th st. S. E. St. 13th st. N. E. 15th av. N. E.	P. M. & M. R. R.	12	381	1888	1887	2,416.9
Marshall st	13th st. N. E	15th av. N. E. 22d av. N. E.	. 6	185	1886	1885	1.087.2
Marshall st	Coder ov	22d av. N. E	6	379	1888	1887	2,836.6
Min'haha av Monroe st	Cedar av Broadway st.	26th st	12 6	21 378	1882 1888		4,009. 662.8
Monroe st	Broadway st.	18% av. N. E	8	234	1887		2,994.8
Morgan av	Western av Hillside Place	4th av. N	6	180	1886		257.
Mt. Curve av.	Hillside Place	Humboldt av.	10	124	1886		1,891.6
Nicollet av	Humboldt av.	Western av	10	139	1886 *1881		1,794. 6,189.5
Nicollet av	14th St	W. 19th st	6	22	1883		1,762.
Nicollet av	W. 19th st	24th st	6	108	1885		1,831.4
Nicollet av	24th st	Lake st	6	60	1884		4,034.7
Nicollet av Nicollet Isl'd.	Lake st West bank	32d st East bank	8 16	229	1886 *1881		1,324.3 846.
Nicollet Isl'd.	East bank	River	8		*1881		104.
Nicollet Isl'd.	East bank	River	12		*1881		120.
9th av. S 9th av. S	14th st	Franklin av	8	300	1887		2,276.1
9th av. S	Franklin av 24th st	22d st 25th st	6	382 415	1888 1888		619.7 611.2
Oth ow O	28th st	Lake st	6	383	1888		1,226.1
9th av. S. E	28th st	10th st	6	16	1882		864.
9th av. S. E	9th St	Ac's StP M&M Hawth'rn av Nicollet at,	6	83	1884		280. 770.8
9th st. S	Hennenin av	Nicollet at	16	455 256	1889 1887		985.8
	and print av.			7017()	True.		47CNF41

Table No. 22-Continued.

STREET.	From-	То-	Size— inches.	Extension No.	Year laid.	Taxes	Length- feet.
th st. S	Nicollet av	2d av	6		*1881		85
th at G	2d av	6th av. 13th av. 10th av. 7th st.	6	55	1884		1,73
th st. S th st. S. E th av. S.	11th av	13th av	6	384	1888		58
th st. S. E	9th av	10th av	6 6	81	1884		54
th av. S	5th st	7th st	6	157	1886		84
nn av. 5	7th st	8th st. Lindley av 16th av. S	6 6	452	1889		47
		Lindley av	8	196	1886		35
)th st	15th av. S	16th av. S	6	385	1888		61
ak st	4th st S. E	Cambridge st.	12	192	1885		1,31
ak Grove st.	15th av. S 4th st S. E W. line of L.				1 1883		40
	D.J.S.J W. line of L. D.J.S.J 6th av. N	Hennepin av.	6	44	1884		75
ak Grove st.	W. line of L.	BT* 77 - 4		au			
. l. T . l	D. J. S. J	Nicollet av 8th av. N	6	23	1883		1,72
ak Lake av.	oth av. N	Eventslin ev	6	456	1889 1885		71
ark av	10th st	Franklin av	6 6	97	1884		2,63
ark av	Franklin av	24th st	6	88	1885		1,28 1,38
ark av	24th st	97th et	6	130	1886		65
ark av	26th st	27th st	6	321	1887		1,95
leasant av	24th st	26th st	8	458	1889		1,30
			8	259	1887		4,51
lymouth av	River	1st st	8 8 6		*1881		41
lymouth av	1st st	1st st. 2d st. 4th st. 6th st. N. Lyndale av. 22d st. 24th st. 27th st. 77th st. 22th st. 27th st. 27t	8		*1881		45
lymouth av.	2d st	4th st	16	481	1889	1889	1,18
lymouth av.	4th st	6th st. N	10	114	1885		66
lymouth av.	6th st. N	Lyndale av	8 12	457	1889	1888	33
ortland av	10th st	22d st	12	15	1882		3,55
ortland av	22d st	24th st	12	25	1883		54 2.02
ortland av	24th st	27th st	16	58	1884		2.02
ortland av	24th st 27th st	Lake st	12	289	1887		1,94
ortland av	Lake st	33d st	8 6	290	1887		1,91
rospect st	Cambridge st.	Delaware st	6	342	1887		59
ueen av	Kenwo'd boul	21st st	6	386	1888		88
iagewood av	Lingley av	Landale av	8	198	1886 *1881		1,81
iver—Subm	rg a pipe acr's	east channel.	16		*1881		25 70
iver—Subm	rg a pipe acr's	33d st Delaware st 21st st Landale av east channel. west channel. 20th av. N 25th av. S L 16 B4 O L'ke.	16	209	1886		86
iver—subm	rg a pipe acr s	25th ov S	24 16	150	1886		1,94
ovelston av	Woostown ox	L 16 D4 O L'Izo	6		*1881		2,72
heridan av	Kenwo'd boul	21st st	6	464	1889	1888	1,53
iblev st	Kenwo'd boul 8th av. N E 11th av. N. E.	11th av. N.E.	8	183	1886		1.19
blev st	11th av N E	13th av. NE	8	317	1886		79
			8	237	1887		49
pring st		Pierce st			1888		1.16
pruce place.	14th st	15th st	6	206	1885		40
tate st	Cambridge st.	Beacon st	6	387	1888		36
tevens av	Grant st	16th st	6	37	1888		74
evens av	16th st	17th st	6	339	1886		34
tevens av	17th st	378' N of 24th st	6	257 70	1887		2,22
tevens av	378 N of 24th st	24th st	6	70	1884		37
tevens av	24th st	25th st	6	129	1885		71
evens av	zotn st	Wood St	6 16	189	1886 1886	1885	5,08 43
lav. N	Wesh'aton	oth et	16 16	145 466	1889	1885	2,19
lav S	wash gion av	25th st. 33d st. Wash'gton av 9th st. 2d st. Grant st. 16th st. 17th st.	6		*1881		
av S	Wash'gton av	Grant st	6		*1881	,	4,86
av. S.	Grant st	16th st.	6	159	1886	1885	99
av. S	16th st	17th st	6	228	1886	1886	34
av. S	17th st	18th st	6	228 325	1887	1886	38
av. S	Franklin av	22d st	į,	128	1885	1885	61 66
av. S	25th st	26th st	6	462	1889	1888	66
l av. S	26th st	27th st	6	320	1887	1886	64
av. S	27th st	28th st	6	388	1888	1887	61
av. S	Lake st	33d st	6	389	1888	1887	1,84
st. N	Hennepin av.	3d av	6	2	1881	1880	1,27
st. N	Plymouth av.	20th av	16	161	1886	1885	2,50
st. N	zuth av	24th av	36 & 24	417	1888	1000	$\begin{array}{c} 1,27\\ 2,50\\ 1,565.7 & 8\\ 10,53\\ \end{array}$
let N.E	Control	41St av	36	412	1888 1887	1888 1886	1,75
et N E	dentral av	Prondway at	8 8	319 390	1888	1887	2,81
est. N. E	Nicollot or	2d ov	8	590 69	1884	1884	825
let S	2d av	5th av	6	09	*1881	1004	1,180
st. S	Nicollet av. 2d av. 5th av.	16th st. 17th st. 18th st. 22d st. 22d st. 22fth st. 27th st. 27th st. 33d st. 33d st. 34d st. 22th st. 32d st. 22th st. 32d st. 22th st. 35d st. 35d st. 35d st. 35d st. 35d st. 36d st. 36d st. 25th st. 25th st. 25th st. 25th st. 25th st. 35th st	16		*1881		2,478
st. S. E	Central av	Bank st	6	8	1881	1880	509
hav. N	Central av Wash. av 4th st	4th st	8		*1881	1000	841
h av N	441 04	T d - l	6	32	1883		2,674

Table No. 22-Continued.

	Table No. 22—Continued.										
STREET.	From—	То-	Size— inches.	Extension No.	Year laid.	Taxes	Length—feet.				
6th av. N 6th av. N 6th av. N	Lyndale av Aldrich av	Aldrich av Emerson av	6	103 125	1885	1884 1885	463.2 1,194.8				
6th av. N. E	Emerson av Marshall st	James av University av 10th st	6 6 12	199 186	1886 1886 *1881	i885 1885	1,644.2 1,224.3 4,093.				
6th av. S 6th st. N 6th st. N	1st st Hennepin av. 11th av	1st av	6 6	306 36	1887 1884	1886	417.1 1,429.				
6th st. N 6th st. S 6th st. S	Plymouth av	Inth av. N.	6	397 181	1888 1886	1888 1885	1,193.4 671.2				
6th st. S 6th st. S	Hennepin av. 1/2 waybet. Nic. Nicollet av	and 2d av ½wayto 1st av	10 10	48 39	1884 1883	1883	629. 207.				
6th st. S 6th st. S	2d av	3d av 6th av	10 12 12 12	109 89	1885 1885	1884 1884	374.8 1,220.8 2,103.4				
6th st. S 6th st. S 6th st. S. E	11th av	Cedar av	12 6	287 193 91	1887 1886 1885	1886 1885 1884	2,769.7 3,839.5				
6th st. S. E	10th av	15th av 16th av	6	280 461	1887 1888	1886 1888	1,992. 399.4				
6th st. S. E 7th av. N 7th av. N	Wash. av 5th st	4th st	$\frac{\ddot{6}}{6}$	393 308	1888 1887	1887 1886	852.4 842.6				
7th av. S	Wash. av 6th st	½wayto 1st av 3d av 6th av 11th av Cedar av 15th av 16th av 4th st Bradford av 3d st 7th st 10th st	6	34 41	1883 1883	1883	462.5 371.4 1,223.				
7th av. S	5th st	8th st	6 6 8	27 187	1883 1885 *1881	1885	1,225. 1,207.4 775.				
7th st. S	Nicollet av	2d av	8 8	45	1884 *1881		846. 3,262.				
7th st. S. 7th st. S. 7th st. S.	10th av 11th av	Nicollet av2d av10th av11th av13th av13th av13th av13th av14th av14t	8 8 8	1 391	1881 1888	1887	420. 825.7				
7th st. S	13th av 14th av	14th av	8 8 6	299 392	1887 1888	1886 1887	400.5 419.9 399.4				
			6	277	1887 1881 (1886)	1886	3,858.				
	10th av 4th st	Lyndale av	6 6	246 30	1887 (1883	1886	2,511.6 937.5				
16th av. N 16th av. N 16th av. N	Lyndale av Dupont av	Dupont av Emerson av	6	93 177	1885 1886	1884 1885	1,220.2 432.5				
16th av. S 16th av. S. E 16th av. S. E	8th st Franklin av University av	Franklin av 22d st 4th st	6 6 6	294 50	*1881 1887 1884	1886 1883	1,467. 616.1 436.2				
16th av. S. E	4th st	5th st	12 6	496 394	1889 1888	1889 1887	382. 622.6				
16th av. S. E 17th av. S. 17th st	Franklin av	28th st	8 6	272 396	1887 1888	1886 1887	3,893.2 659.1				
17th st	Elwood av	Logan av	6 6 6	80 336 398	1884 1887 1888	1884 1886 1887	676.3 526. 621.2				
2½ st. S	Cedar av	20th av	6	140	1886 *1881	1885	809. 420.3				
3d av. N 3d av. N	2d st	Wash. av 5th st	6	. 425 220	1889 1887	1886	439.7 $1,245.1$				
3d av. N. E	5th st	Harrison st	6 8	230 238	1886	1886 1886	402. 2,404.6				
			24 24	66 117	1884 1885 (1885)	1884 1884	2,863.9 3,676.8				
3d av. S	Franklin av Lake st		24 24	133 264) 1885 1886 1887	1885 1886	5,252.6 1,914.9				
3d av. S. E	Main st	38th st	24 24	401 68	1888 1884	1887 1884	3,298.1 1,176.8				
3d st. N	Hennepin av.	3d av	24 16 16	241 113 196	1887 1885 1885	1886 1884 1885	2,027. 1,204.4 1,247.5				
3d st. N	6th st Pump house.	Plymouth av. Hennepin av.	16 16	126 472 17	1889 1882	1888	2,844.3 3,487.				
3d st. S	Nicollet av 3d av	No. 2 Hose hs. 5th av	4 24	65	*1881 1884	1884	244. 806.2				
3d st. S	oth av	Oedar av	6 6 6	216 400 170	1887 1888 1886	1886 1887 1884	2,057.5 2,053.7 557.3				
10th av. S 10th st. N.	14th st	Franklin av	6	322	1886 1886 *1881	1884 1886	2,236.8 823,				
3d av. S. 3d av. S. 3d av. S. E. 3d av. S. E. 3d st. S. 3d st. N. 3d st. N. 3d st. N. 3d st. S. 3d st. S. 3d st. S. 10th av. S. 10th av. S. 10th st. S. 10th st. S. 12th av. N.	Hennepin av. 6th av	6th av Chicago av	8 12	116	*1881 1885	1884	3,556. 1,064.4				
12th av. N	Emerson av	Girard av	6	484	1889	1889	753.3				

Table No. 22-Continued.

STREET.	From—	То-	Size— inches.	Extension No.	Year laid.	Taxes of	Length— feet
12th av. S	24th st	26th st	8	270	1887	1886	1,360.7
12th st. N	Hawth rn av	Linden av	6	19	1882		100.
12th st. N		Chestnut av	6	162	1886	1885	351.1
12th st	2d av	1st av. S Clinton av	24 6	473 408	1889 1888	1888 1887	2,340.1 697.3
13th av. N. E. 13th av. N. E. 13th av. N. E.	River	Marshall st	24	208	1886	1885	1,008.1
13th av. N. E.	Marshall st	Main st	16	190	1886	1885	669.9
13th av. N. E.	Jefferson st	Monroe st Franklin av	6	403 167	1888 1886	1887 1885	638.5 4,665.8
13th av. S 13th av. S. E	Wash. av	4th st	8 6	492	1889	1889	413,1
13th av. S. E	6th st	7th st	6	303	1887	1886	439.
13th av. S. E	Como av	Division st	6 12	244	1887	1886	1,304.
13th st. S 20th av. N	1st av River	2d av Pt. E. of 1st st,	24	487 207	1889 1886	1889 1885	630.9 183,
20th av. N	Pt. E. of 1st st.	2d st	24	418	1888		635.
20th av. N	2d st	Wash. av	16	175.	1886	85	410.
20th av. N 20th av. S	Wash. av	James av 21st av	8 6	99 409	1885 1888	84	4,949.5 1,149.3
20th av. S	5th st	Franklin av	6	173	1886	1885	2,323.5
21st av. S	5th st	Riverside av.	6	147	1886	1885	924 1
22d av. S	Riverside av.	Franklin av	8 6	222 467	1887	1886	1,777.5
W. 22d st E. 22d st	25th av S	Sheridan av	6	486	1889 1889	1888 1889	607.2 892.3
E. 24th st	Nicollet av	27th av. S 4th av. S	6	61	1884	1883	2,007.
E. 24th st	4th av. S	Portland av	6	29	1884	1883	665.
E. 24th st	Portland av	Cedar av	8	267	1887 1888 (1886	{ 4,941.2 401.5
W. 24th st	Pleasant av.	Grand av	6	476	1889	89	327.2
E 94th et	Cedar av	Hiawatha	8 6	557	1889	1889	421.1
W. 24th st	Hennepin av.	Fremont av	6	404	1888	1887	357.7
W. 24th st	Fremont av Riverside	Franklin av	6	474 151	1889 1886	1888 1885	1,060.2 1,017.8
25th av. S 25th av. S	Franklin av	22d st	6	485	1889	1889	691.5
25th st	Nicollet av Minneh'ha av	Portland av	6	92	1885	1884	2,638.5
25th st. 26th av. N. 26th av N.	Minneh'ha av	29th av. S Wash'gton av	8 12	137 416	1886 1888	1885 1888	2,725.9 407.0
26th av N	2d st	Lyndale av	12	471	1889	1888	1,603.8
26th st	Wash'gton av 12th av	Cedar av	12	268	1887	1886	2,639,3
27th av S	25th St	Lake st	8 12	274 258	1887 1887	1886 1886	3,254,3 1,203.4
W 27th st W 27th st	Hennepin av. Dupont av	Dupont av Nicollet av	12	143	1886	1885	3,925.7
E 27th st	Nicollet av	Portland av	12	110	1885	1884	2,669.0
E 28th st	Chicago av	Bloom'gt'n av	8	269	1888	1886	2,622.2
E 31st st W 32d st	3d av. S Blaisdell av	Clinton av	6	281 292	1887 1887	1886 1886	332.7 859.1
E 33d st	3d av. S	Pleasant av	12	265	1887	1886	1,326.0
University av	Central av	6th av N E	12 12		*1881		2,549.0
University av	6th av	Broadway st.	12 12	10 100	1882 1885	1881 1884	1,731.0 1,459.9
University av	Central av 3d av. S E	5th av S E	6		*1881	1881	869.0
University av	5th av S E	13th av S E	6	12	1882	1881	3,413.0
University av	14th av. S E	16th av. S E	6 6	54	1884 1884	1883 1883	847.6 392.3
Vine place	Broadway st	19th st.	6	63 195	1886	1885	799.8
Vine place	19th st	Franklin av	6	410	1888	1887	563.5
Wash.av. N	19th st Hennepim av. N. acr'ss Bass	4th av	6		*1881		1,535.0
Wash av. N	N. acr'ss Bass	ett's cre'k bdg	8	489	1889 *1881		494.7
Wash't'n av N	N. 4th av. ext Plymouth av. 14th av 20th av	14th av	8	79	1884	1884	2,872.3 367.3
Wash'tin av N	14th av	20th av	8 8	106	1885	1884	2,247,2
Wash't'n av N	20th av	30th av	8 12	286	1887	1886	4,194.8
Wash't'n av S	Hennepin av. 6th av	11th av	12	72	*1881 1884		2,740.0 2,066.0
Wach't'n or S	11th over	Coden or	10		*1881		1,820.0
Wash't'n av. S	Cedar av. 15th 19th av. 1st av. N. 11th st. N.	av S, 19th av	6	96	1885	1884	461.6
Wash't'n av. S	1st av N	11th av	6	221 104	1887 1785	1886 1884	752.8 1,088.3
Western av	11th st. N.	12th st. N.	8	104	*1881	1004	360.0
Western av	12th st. N	R. R. bridge	8 8 8	98	1885	1884	384.5
westernav o	east n n bug.	morgan av	8	179	1886	1885	5,657.1 1,672.5
Wilder st	Morgan av Bridge st. 342'	S of Bridge st	8 8	411 224	1888 1885	1887 1887	342.5
Willow st	Hannon place	14th st	6	138	1886	1885	1,387.4
						1	

	Recapitulation.	
Size.	•	Length—feet.
Four inches		634.
Six inches		308,281.9
Eight inches		199,907.4
Ten inches		
Sixteen inches		
Twenty-four inches		52,368.4
Thirty-sixinches		12,104.5
Total (140.6 miles).		742,365,9

Table No. 23.

WATER MAINS LAID DURING SEASON OF 1889.

The following named water mains were laid by the city by day work. The abutting property was assessed sixty-five (65) cents per front foot, regardless of the size of the main.

STREET.	From—	То—	Size, inches.	Exten- sion No.	Yr. laid.	Year of taxes.	Length, feet.	Cost.
	evator near	Shingle creek.	6	460	1889		148.5	\$283.36
Aldrich av	27th st	28th st	6	482	1889	1889	612.2	521.91
Colfax av	24th st	27th st	6	419	1889	1888	1.949.9	1.577.17
Clinton av	24th st 27th st	48ft. S.of28thst	6	483	1889	1889	716.7	616.92
8th st. S		6th av	12	422	1889	1888	380.9	709.34
8th st. S		11th av	12	423	1889	1888	1.644.	3,206,13
8th st. S	21st st	22d av	6	421	1889	1888	370.5	393.44
1st av. S			12	433	1889			5,523,50
15t av. S	200	14th st				1888	1,047.3	
	32d st	33d st	6	477	1889	1888	596.7	578.55
4th st. S	6th av		12	427	1889	1888	2,045.8	3,050.52
5th st. S. E	14th av	16th av	12	495	1889	1889	828.2	1,715.16
14th av. S	18th st	Franklin av	6	430	1889	1888	921.9	811.22
14th av. S. E	4th st	Como av	12	435	1889	1888	2,920.3	5,586.25
14th st	1st av. S	Stevens av	8	428	1889	1888	313.	459.83
14th st	1st av. S	3d av. S	24	522	1889	1889	964.4	4.767.37
Harrison st	Broadway st.	181/6 av. N. E	24	438	1889	1888	1,506.2	8,944.37
Hawth'rn av	9th st. N	12th st. N	16	439 & 440	1889	1888	1.115.9	3,204,25
Hiawathaay	24th st	27th st	8	530	1889	1889	2,140.7	2,454.11
	Summer st	13th av N F	8	441	1889	1888	1,105.5	1,321.53
	Western av		6	442	1889	1888	601.5	639,60
Knox av		to'rd Plym'th	6	443	1889	1889	295.	364.96
	Laurel av		24	446	1889	1888	369.3	1,925.06
		24th st	24					
Lyndale av	Erie av	24th St		445	1889	1888	4,717.	21,049.92
Lyndale av	20th av. N	29th av. N	16	444	1889	'88&'89	3,743.2	9,546.20
9th st. N	2d av	Hawth'rn av	16	445	1889	1888	770.8	2,021.47
19th av. S	7th st	8th st	6	452	1889	1888	471.1	426.64
Oak Lake av.	oth av. N	8th av. N	6	456	1889	1888	718.	656.84
Pleasant av		26th st	8	458	1889	1888	1,303.3	1,491.44
Plymouth av.	2d st	4th st	16	481	1889	1886	1,130.3	3,421.73
Sheridan av		21st st	6	464	1889	1888	1,535.9	1,472.35
Plymouth av.	6th st. N	Lyndale av	- 8	457	1889	1888	332.8	622.21
2d av. N		9th st	16	466	1889	1888	2,191.	5,611.63
2d av. S	25th st	26th st	б	462	1889	1888	662.3	599.62
16th av. S. E	4th st	5th st	12	496	1889	1889	382.	1,082.09
3d st. N	6th st	Plymouth av.	16	472	1889	1888	2,844.3	7,532.70
3d av. N	2d st	Wash. av	6	425	1889	1888	439.7	795,61
12th st	Hawth'rn av	1st av. S	24	473	1889	1888	2,340.1	11,303,76
12th av. N	Emerson av	Girard av.	6	484	1889	1889	753.3	797.52
	University av	4th st.	6	492	1889	1889	413.1	407.20
13th st. S	1st av	2d av	12	487	1889	1889	630.9	1,385.61
22d st	Kenwoodboul	Sheridan av	6	467	1889	1888	607.2	598.40
	25th av. S	27th av S	6	486	1889	1889	892.2	835.04
	Pleasant av	Grand av	6	476	1889	1888	327.2	402.18
24th st	Fremont av	Irving av	6	474	1889	1888	1,060.2	960.47
		Hiawatha av.	8	557	1889	1889	421.1	502.81
	Franklin av	22d st	6	485	1889	1889		611.34
26th av. N	Wash. av	Lyndale av	12	471	1889	1888	691.5	
	Across Basset	t's arook brid	8	489	1009	1000	1,603.8 494.7	2,975.09 566.99
TD - 4 - 3		os cieck briu.		400		******		
Total							54,071.5	\$126,331.41
			-					

									S	u	11	n_1	m	a	r	\mathbf{y}	1	0.	r	1	E	1	O.	le	€	I	V	0	. 23.		
Size,	in	e.	h	es	Š.																								Length, ft	. Cost	D.,
	6	٠.				 		٠.					٠.																Length, ft . 14,784.7	\$14,350	.34
	- 8	٠.				 																							. 6,111.1	7,418	.92
	12																													25.233	6.69
	16					 																							. 11,795.5	31,337	.98
	24					 									۰														9,897.0	47,990	.48
						1	0	ta	uls	5 (10).2	4	m	ni	le	S)	١.											54.071.5	\$126,331	.41

Table No. 24.

WATER MAINS TO BE LAID IN THE YEAR 1890.

The assessment for the following named water mains was made in the same manner as explained at the head of Table No. 23.

			Size, inches.	Extension No.	Estimat'd length, ft.	0	4 1
			le le	.0	T, T	Estimat'd cost.	assessent.
			0	00 :	1, 13	tima cost.	m o u f asse nent.
STREET.	FROM-	To-	2° E	25	日本	n S	Amou of ass ment.
			ze ji	32	13 pt	: 5 E	e a D
			100	×	Su	S.	
			0/2	豆	le E	M	Aoh
Aldrich av	16th av N	20th av. N	6	499	1.436	\$1,866.80	\$1,455.87
Aldrich av	10011 av. 11	0741 -t			0.000	01,000.00	
Aldrich av	220 St	27th St	6	497	2,636 1,201 1,310	3,426.80	3,011.15
Aldrich av	29th st	31st st	6	498	1,201	1,561.30	1,305.91
Bloom'gt'n av	Lake st	32d st	8	500	1.310	1,834.00	1,534.90
Chicago av	Lake st	34th st	8	503	2,513	3,518.20	2,887.69
Chicago av	34th et	20th av. N	12	559	2,676	5,218.20	3,051.43
Chicago av	0741 04	0041 24		700		0,210,20	
Colfax av	20th St	28th St	6	502	607	689.10	679.32
Colfax av	Lake st	32d st	6	501	1,309	1,701.70	1,436.71
Division st	13th av. S. E	14th av. S. E	12	504	330	643.50	316.58
Emerson av	24th av. N	27th av. N	6	509	1.494	2,532,40	1,650.35
8th et S	25th av	20th av	6	508	1,628	2,116.40	1,046.29
Oth St. S	10th ox	14th ox	6	506	1,598	9 077 40	1 644 05
dull St. S. E	Wastern	Haldon of			1,000	2,077.40 427.70	1,644.05
IIth St. N	western av	Holden st	6	507	329	421.10	325.00
11th st. N	Chestnut av	Hennepin av	6	505	608	790.40	463.45
11th st. S	1st av	3d av	6	424	874	1,136.20	544.70
Fillmore st	Broadway st	Spring st	6	514	1,276	1,658.80	1,101.36
Eromont ov	25th av N	22d o.v. N	6	516	1.930	2,500,00	2,277.29
Fremont av	orth av. Iv	004h o4	6			2,509.00 798.20	601.00
Fremont av	27th St	28th St	0	517	614	198.20	691.82
1st av. S	10th st	12th st	6	511	850	1,105.00	650.00
1st av. S	33d st	34th st	6	510	648	842.40	765.05
4th av. S	31st st	32d st	6	515	624	811.20	707.67
4th st S E	15th av	Hennepin av. 3d av. Spring st. 32d av. N. 28th st. 12th st. 12th st. 32d st. 16th av. 27th st. 6th av. 26th st. Division st. 26th st. Winter st. 2d st. N. 26th st. 11th st. 25th st. 25th st. 3th st.	6	512	410	533.00	350,35
5th or S	24th ct	977th at	6	513	2,016	2,620.80	2,063.48
Still av. S	24 03	CAL SU	0				
5th St. S	30 av	otn av	8	429	1,260	1,764.00	661.05
14th av. S	Franklin av	26th st	8	519	2,621	3,669.40	2,645.19
14th av. S. E	Como av	Division st	12	520	1.322	2,577.90	2,645.19 1,394.14
15th av S	24th st	26th st	6	518	2,621 1,322 1,306	2,577.90 1,697.80	1,339.16
15th ov S T	Division et	Winter et	6	523	660	858.00	724.02
Istil av. S. E	Division St	Willief St	24				
41st av. N	Lyndale av	20 St. N	24	521	576	2,880.00	443.33
Garfield av	24th st	26th st	6	524	1,314	1,708.20	1,544.28 705.70
Grand av	26th st	27th st	6	527	640	832.00	705.70
Grant st	Nicollet av	1st av S	6	526	430	559,00	355.61
Groveland av	Clifton place	Hennenin av	6	525	408	530.40	378.30
Hammiet av	21th of	95th of	6	528	694	902.20	
narrietav	Attn St	Soun St		920		0.045.00	763.56
Harrison st	14th av. N. E.	18½ av. N. E	24	*438	1,390	9,345.63	1,580.47
Humboldt av.	33d st	Hennepin av 25th st 18½ av. N. E 34th st	6	529	584	759.20	698.10
Irving av	34th st	35th st 6th av. N 18th av. N. E Plymouth av.	6	531	629	817.70	777.40
James av	5th av. N	6th av. N	6	532	634	824.20	668.07
Tofforeon et	17th ov N F	18th ov N E	8	533	530	742.00	511.67
Jenerson st	D. Av. IV. E.	Di av. IV. E					450 45
Knox av	Present term.	Plymouth av	4	443	374	486.20	452.47
Lake st			12	447	2,627	2,495.65	2,320.11
Lindley av	26th st	28th st	6	534	1,254	1,630.20	1,404.55
Lyndale av Lyndale av	29th av. N	28th st	16	535	1,421 (00 000 55	0.004.04
Lyndale av	32d av N	41st av N	24	536	5,869	32,968.55	8,934.91
Morgon ov	10th or N	19th ov N	6	494	627	815.10	765.67
Morgan av	nod -t	and av. IV		F99	021		
Niconet av	320 St	330 St	8	539	670	938.00	797.81
9th av. S	22d st	24th st	6	538	687	893.10	725.28
9th av. S	25th st	26th st	6	453	643	835.90	748.19
19th st	Ridgewood av	24th st. 26th st. Lyndale av 5th av. S.	6	537	1,970	2.561.00	2,266.60
10th et	3d av S	5th ov S	24	454	994	4 473 00	622.70
Morgan av Nicollet av 9th av. S 9th av. S 19th st 19th st	Franklin or	Ridgewood av. 26th av. N E 21st av. S 10th av. N E Lake st. Russell av.	6	540	401	4,473.00 521.30	283.56
Pleasant av Polk st	anklin av	oction N.F.	0		1 001	0.207.00	0.040.00
POIK St	azu av. N E	zoth av. N E	6	541	1,821	2,367.30	2,049.29
Riverside av.	Cedar av	21st av. S	16	459	1,439	3,669.45	1,000.68
	6th av N	10th av. N	6	542	1,307	1,699.10	1,595.36
2d av. S	E 28th st	E Lake st	6	545	1,328	1,726.40	1,325.32
6th av N	James av	Russell av	6	543	2,785	3,620.50	2.817.76
16th av SE	FTS . 3	T) 1 . 1 . 1	0	544	655	851.50	779.50
Aussell av	Talmauge av.	Russell av Division st Division st. Morgan av 24th st. 25th st. 39th st. Division st 8th st. Vine place Polk st Lyndale av. Portland av	0				772.59 772.59 275.29
Tuttle st	Talmauge av.	Division st	6	550	655	851.50	112.59
10th av. N	Logan av	Morgan av	6	493	326	423.80	275.29
10th av. S	22d st	24th st	6	560	713	926.90	730.98
10th av. S	24th st	25th st	6	556	610	793.00	691.60
10th av S	38th st	39th st	6	561	633	822.90	745.47
19th av SE	Como av	Division st	6	549	1,281	1,665.30	1,444.30
12th av. S.E	74h of	Oth of	6	549	200	101.00	306.22
10th av. S 10th av. S 12th av. S E 13th av. S E 13th st. S 22d av. N E 24th st	th St	8th St	6	555	380	494.00	
13th st. S	Harmon place	Vine place	6	488	814	1,058.20	886.60
22d av. N E	Harrison st	Polk st	16	554	467	1,190.85	411.78 239.72
24th st	Garfield av	Lyndale av	6	552	338	439.40	239.72
25th st	Garfield av Park av	Portland av	6	547	661	859.30	526.02
27th 937 N	Emergen er	Frementes	6	553	327	425.10	303.95
20th or N	Danies at	ad at	6	746		1 020 00	000.90
W 202	racine st	au St	10	546	794	1,032.20 1,281.15	858.00
w 330 st	Hennepin av.	Humboldt av	12	558	657	1,281.15	636.81
34th st	Humboldt av.	Irving av	6	551	329	427.70	308.23
38th st	Chicago av	10th av. S	16	562	714	1,820.70	621.35
Univ'ty av SE	Oak st	Malcolm st.	6	548	4,350	5,655.00	3,785.78
Wash'gton et	5th st. N.E.	17th av N E	12	475	3,828	7,464.60	4.017.12
" ash gion st.	oth St. N E	Lyndale av Portland av Fremont av 2d st Humboldt av Irving av 10th av. S Malcolm st 17th av. N E	176	710			
Total					88,664	\$161,069.98	\$91,595.13

Summary of Table No. 24.

Size.	Estimt'd length— feet.	Estimated cost.	Amount of assessm't.
Six inches. Eight inches. Twelve inches. Sixteen inches. Twenty-four inches. Total (16.79 miles).	8,904 11,440 4,041 8,829	\$72,575.20 12,465.60 19,681.00 10,304.55 46,043.63 \$161,069.98	\$57,205.41 9,038.31 11,736.19 3,028.51 10,586.71 \$91,595.13

Table No. 25.

STREET SPRINKLING FOR THE SEASON OF 1889.

This work is done by the wards, by day work, and the whole cost assessed to abutting property in advance.

WARD.	Aver. cost per front foot.	front feet	Total cost
First	6 85-100	48,948	\$3,336.00
	5 82-100	84,478	4,921.50
Third	3 94-100	128,743	5,093.30
Fourth	6 53-100	198,360	12,890.09
Fifth	5 47-100	236,382	12,938.08
Sixth		65,833	4,327.7
Seventh		15,160	1,139.0
Eighth		154,074	7,618.6
Ninth	0 01 400	29,869	1,674.0
Tenth		8,809	603.0
Eleventh		83,344	3,635.4
Fwelfth* Fhirteenth*			
Total (99.7 miles of streets exclusive of crossings.)		1,053,000	\$58,176.8

^{*}No sprinkling done.

Table No. 26.

STREET SPRINKLING ORDERED FOR THE SEASON OF 1890. This work is to be done and is assessed in the same manner as for the season of 1889.

Ward.		ASSESSMENT NT FOOT.	No.of fr'nt feet	Amount
	Not paved	Paved.	assessed.	assessm't.
First. Second Third. Fourth Fifth Sixth Seventh Eighth Ninth Tenth. Eleventh Eleventh Twelfth Thirteenth	.07 .05 .05 .05 ¹ 2	.071/ ₂ .081 ₂ .09 .09	79,579 95,197 218,079 213,603 247,111 91,118 69,593 201,362 49,198 9,830 139,033 2,305 2,349	\$5,970.68 *6,746.72 12,087.56 12,951.58 15,857.70 5,617.80 5,212.62 12,086.26 675.85 +9,019.07 138.32 141.04
Total (134.3 miles streets, exclus. of crossings)	.061/3		1,418,357	\$90,195.56

^{*}A few double assessments. †Several double assessments.

Table No. 27.

STREET SWEEPING FOR 1889.

The paved streets are swept at night, under the direction of the street commissioner.

	Cost.						
WARD.	Per. sq. yds. mills.	Repairs and oil.	Teams and men.	Total.	No. of sq yds. swept.		
Second Fourth Fifth	9.7	\$83,50 396,50 257,47	\$416.40 1,019.00 1,162.00	\$499.90 1,415.50 1,419.47	116,298 146,635 187,555		
Total		\$737.47	\$2,597.40	\$3,334.87	450.486		

Table No. 28.

CONDUITS FOR UNDERGROUND WIRES LAID PREVIOUS TO JANUARY 1, 1890.

Bast 2 112 1,672 ### 820

Table 28-Continued.

-uoə j	Total length of duits—feet.	2.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	85,052
EDISON LIGHT AND POWER COMPANY.	Total length of pipe—feet.	1,282 882 882 882 1,083 1,043	33,179
IDISON LIGHT AN POWER COMPANY	No. of pipes—3 wires in each.	०००० सन म म मनमञ्जानका	:
EDISOT	Side of street.	West West West West West North North North East. East. East. East. East. East. East. West. East. West. East.	
NATIONAL SUBWAY COMPANY, DORSET PIPE.	Total length of conduit— feet.	88.0 88.0 784.0 11.846.0 11.646.0 82.0 82.0 82.0 83.0 83.0 83.0 83.0 83.0 83.0 83.0 83	39,685
AL SUBWAY CO DORSET PIPE	No. of duets.	\$\frac{2}{3}\frac{2}\frac{2}{3}\frac{2}\frac{2}{3}\frac{2}{3}\frac{2}{3}\frac{2}{3}\frac{2}{3	:
AL SUB	-noo to o N duits.	करकरकर कर न करकर करकर कर करकरकर	:
NATION/	Side of street.	West West West West North North East East East East East East	
EPHONE	Total length of conduit— feet.	88.0 88.0 86.1 11.0 198.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1	12,188
N TEE	No. of duets.	कक्छ ३ ६६ क	:
ESTERN TE EXCHANGE	-nos to .oV duits.	000H H H 00	:
NORTHWESTERN TELEPHONE EXCHANGE.	Side of street.	East. East. South. South.	
	То	oth st. Th st. St. st. Oth st. Oth st. Oth st. Oth st. Nicollet av. Nicollet av. Ath st. St. av. S. St. av. Hemepin av. Hemepin av. Nicollet av. St. av. St. av. St. av. Hemepin av. Hemepin av. Nicollet av. St. av. Hemepin av. Hemepin av. Hemepin av. St. av. Hemepin	
	FROM—	5th st. (th st. Th st. St. st. St. st. 9th st. 9th st. 9th st. Hemepin av Hemepin av Hemepin av Ag st towards Hemepin av St towards Hemepin av St towards St towards St towards St towards Hemepin av St towards St towards Hemepin av St av Hemepin av St av St av Hemepin av St av St av Hemepin av St av	(16.1 miles)
	STREET.	ZZZwwwwwwww	Total

The conduit used by the Telephone Exchange Company is made of vitrified clay pipe, is rectangular in form, and contains two ducts. The conduit used by the National Subway Company is the Dorset pipe, made of an asphalt composition, is rectangular in form, and contains six to twelve ducts.

The Edison Light and Power Company uses a cast iron pipe containing three wires.

ANNUAL REPORT

OF THE

CITY ATTORNEY

OF THE

City of Minneapolis

For the Fiscal Year Ending December 31, 1889.

ROBERT D. RUSSELL, - Attorney.

MINNEAPOLIS: HARRISON & SMITH, PRINTERS.

LEGAL DEPARTMENT.

ROBERT D. RUSSELL, - City Attorney.

ALBERT H. HALL, - First Assistant.

LYCURGUS A. DUNN, Second Assistant.

WILLIAM H. MORSE, - - Clerk.

F. DEHARVEN, - Sidewalk Inspector.

(Detailed from the Police Department.)

REPORT OF THE CITY ATTORNEY

FOR THE YEAR ENDING DECEMBER 31st, 1889.

To the Honorable City Council of the City of Minneapolis:

GENTLEMEN-I herewith submit the following report of the legal depart

ment of the city for the year ending December 31st, 1889.

On assuming the position of city attorney, I found a large amount of business on hand which required immediate investigation and attention, that the interests of the city might not suffer. In making this investigation and getting hold of the pending litigation and other matters, I was kindly assisted by my predecessor, Hon. Seagrave Smith, making the task much easier than it would have been without his wise and helpful suggestions. As the city has developed and grown I find that the work in this department has increased in a steady general way as it has in all the other departments, corresponding to this development and growth. During the past year the work has been specially increased by an act of the last legislature making the department responsible for legal services to all the boards of the city excepting the Park board, and by another act of the legislature giving it charge of state as well as city cases in the municipal court. The first of these acts increases the detail work in the matter of consultations and opinions, and somewhat in caring for suits. The second, together with the passage by the city council early in the year of a new ordinance regulating the liquor traffic. and another relative to prostitutes, have more than doubled the work in the municipal court. In order that you may have a more thorough knowledge of the civil litigation of the year and of the contested business in the municipal court, I have prepared and attached hereto for your reference and convenience schedules which show this work somewhat in detail, as follows: Schedule A, civil actions pending January 1st, 1889, and finally disposed of during the year; Schedule B, civil actions pending January 1st, 1889, not yet finally disposed of; Schedule C, civil actions brought during the year 1889, and finally disposed of; Schedule D, civil actions brought during the year 1889, and still pending; Schedule E, cases brought in the municipal court for violations of city ordinances and State laws, where there was a contest, attorneys appearing for the defendants. Summarizing these schedules it will be seen that at the beginning of the year there were twenty-seven civil actions pending, four in the supreme court of the State of Minnesota, one in the United States circuit court, one in the United States supreme court, and twenty-one in the district court of Hennepin county. During the year there have been brought twenty-four civil actions in the district court, and one in the municipal court, making in all fifty-two cases requiring attention. Of these, twenty-five have been finally disposed of, in nineteen of which the city has been absolutely successful; two have been settled without trial, and four have been decided against the city. Twenty-six have been tried in the district court; from the decisions in ten of these appeals have been taken to the supreme court, making a total of fourteen pending in the supreme court during the year; nine of these have been tried, and five are still pending; in six of the nine the city has been successful; in three the decision of the lower court where the city was successful have been reversed; of these three one was again tried in the district court and finally disposed of by a verdict in favor of the city; in the other two the city was not actually unsuccessful; one was the case of the St. Anthony Falls Water Power Company, in which the lower court was sustained in its conclusion that the city was entitled to the supply of water from the pond adjoining its East side pumping station through a canal supplying that station equal to the quantity of water the pond would supply as it originally existed; the case was reversed to ascertain the amount of water, the court below holding that the pleadings did not make an issue

The case is still pending in the district court for determinaas to this fact. The other case was a writ of certiorari sued out by the St. tion on this point. Paul, Minneapolis & Manitoba Railway Company, asking for a review of the decision of the district court in the matter of the award of damages to which that company claimed to be entitled for the opening of Thirty-first street Northeast, and involved the general question of what the city should pay railroad companies as damages when opening new streets across their right of way. The district court held that the company was entitled to the cost of erecting planking, cattle guards and sign posts. The supreme court on the appeal of the railway company decided that the city should only pay the cost of erecting and maintaining planking, and that this cost should be ascertained by commissioners, and the case is sent back with instructions that such commissioners be appointed, and the damage assessed in accordance with this This settles the question long in controversy, and the decision is more valuable to the city than if the decision of the lower court had been in all respects affirmed. Both of these decisions were of great importance and value to the city.

What are known as the North side crossing cases have occupied a good deal of time during the year in an effort to reach a compromise which might secure the bridging of the tracks at Washington avenue, Third, Fourth, and Fifth streets, in a better manner than can be done by securing a favorable decision in the suits now pending in the Supreme Court of the United States, and at an earlier time. The St. Paul, Minneapolis and Manitoba Railway Company and the city have practically agreed on a satisfactory plan, but the Manitoba company and the Minneapolis & St. Louis company have so far been unsuccessful in the attempt to reach an agreement. Nothing is lost by these efforts to compromise, and they have been considered in the hope that there could be some gain. If there is not a compromise, the cases will be tried in the Supreme Court of the United States as soon as they are reached

on the calendar of that court.

Of the four cases decided in the district court adverse to the city, two were injunction suits where on a preliminary hearing the city was temporarily enjoined, and in which it seemed unnecessary for the city to take further action. One of these, Bradish vs. The City, involved the question of the right of the council to divert ward funds from the purposes for which the charter provides they shall be held. The decision was a very full one, and determined, as I think, correctly, that the different funds of the city must be sacredly held for the purpose for which they were assessed, and cannot be diverted to other purposes. The decision is important in view of the con-

tinual controversies arising on the question.

Twenty of the fifty-two cases considered during the year were brought for alleged personal injuries, and claimed damages to the amount of \$116,404.00; of these fourteen have been tried involving \$54,154.00, and the city has been successful in all but two, which were tried together for the same injury and a verdict rendered against the city for \$500.00, which has been paid. In the same cases there had been a previous verdict for \$1,250.00 which had been set aside. This \$500.00 and costs is the only money claim of any kind recoved in the litigation against the city during the year. Three of these personal injury cases are now pending on appeal in the supreme court. Twenty-seven cases altogether are still pending against the city, four in the State supreme court, two in the United States Supreme Court, five in the United States Circuit Court, one in the municipal court, and the others in the district court of Hennepin county.

By reference to Schedule E you will see that 566 cases have been tried in the municipal court, involving a variety of offences against the city ordinances and the State laws. In 433 of these the parties have been found guilty, and in 133 not guilty. Three have been appealed to the supreme court, one of which was dismissed in that court and two reversed; of these two one was reversed on a technicality, and the other because the ordinance in controversy was not authorized by the charter. In six cases where the municipal court found the parties guilty the defendants were released on habeas corpus proceedings by the district court after commitment. The

ruling of the district court was affirmed by the supreme court.

In addition to the work appearing in these schedules, twenty-seven street-

opening appeals have been disposed of, in all of which the right of the city to open the streets has been sustained. Ten street opening appeals are still pending in the district court. Ninety-five contracts and bonds for city work have been drawn, and one hundred and twenty-nine opinions on titles for street openings, school house sites, etc., given. Every meeting of the city council a large number of committee meetings, and the sessions of the board of equalization have been attended by myself or an assistant. Numerous opinions have been given as asked by the council, its committees, the city officers and others. Many of these were written and of considerable importance, notably one on the street railway franchise, one on the underground wire ordinance, and another on the right of the city to open Minnehaha avenue through the property of the Chicago, Milwaukee & St. Paul Railway Company. These opinions many times required a great amount of work in prepary

aration, and took a large amount of time.

In the organization of this department I have endeavored to divide the labor so that the different branches of the work should be promptly and efficiently performed. I have myself kept a general supervision of all the work, have personally tried the civil actions, advised the council and its officers, have investigated and made reports on a large number of claims for damages of every kind and character presented to the council, and until September 1st, tried all street opening appeals. I have been peculiarly fortunate in having competent and faithful assistants, each of whom has contributed to the best of his skill to the success of the department and the interests of the city. Albert H. Hall, the first assistant, had entire charge of the municipal court business up to September 1st, 1889, trying all cases in that court and all appeals to the supreme court from that court. Since September 1st he has done work of a more general character, rendering aid in municipal court matters as it was necessary, and having charge of street opening appeals. During the year he has acted for me in my absence or inability to act in attending council and committee meetings, giving opinions, drawing ordinances, etc. In addition to this he has examined numerous abstracts of title, and assisted me in some civil cases. On September 1st, you very kindly gave me another assistant in the person of L. A. Dunn, who has since his appointment had charge of the municipal court business which has been large enough to occupy the greater part of his time. Wm. H. Morse, although nominally a clerk, has been practically an assistant, keeping all the records, drawing contracts and bonds, examining abstracts and much other important and valuable office work. I have continued the policy of my predecessor in having claims against the city carefully and thoroughly investigated as early as possible after presentment, thereby preventing jobs against the city and enabling us to settle worthy claims without the expense of litigation. To assist in this work, Mr. F. De Harven was detailed to this department from the police department several years ago, and he has continued to perform his duty in a thorough manner, saving the city from imposition and thereby saving it from a waste of money.

It will thus be seen that there has been an unusual amount of business in this department of the city's affairs. With a second assistant the work is still sufficient to keep everyone connected with the department very busy. No outside help has been employed however, and no money expended for services in this direction. The result of the work is as favorable as we could

wish or expect, and speaks for itself.

In closing, I desire to thank you, gentlemen, for your uniform courtesy and constant assistance in all of the matters with which I have had to do. I have and do appreciate it, and will try while connected with you to render such services as may show my appreciation.

Respectfully submitted, ROBERT D. RUSSELL,

City Attorney.

Schedule "A."

CIVIL CASES PENDING JANUARY 1, 1889, AND FINALLY DISPOSED OF DURING THE YEAR 1889.

MATTHIAS FUNK VS. THE CITY.

Suit commenced August 20, 1884, to recover from the city an indebtedness due to one Ole Johnson, \$58.75, plaintiff having recovered judgment against Johnson and levied an execution on the amount due from the city. February 23, 1889, demurrer to the complaint argued and demurrer sustained.

No. 269. POTTNER & PLACHY VS. THE CITY.

Claim for \$362.00 damages for flooding cellar. June 11th, 1889, cause argued in supreme court on appeal of the plaintiffs from an order denying a motion for a new trial. June 18th, 1889, decision of the supreme court affirming order of court below. Judgment entered in favor of the city for \$41.50.

No. 311. Elmer A. Hall, by his Guardian ad litem vs. The City.

Claim for \$5,000 for damages for personal injury received in a derrick.
Tried in May, 1887, by a jury, resulting in a verdict for plaintiff for \$1,200.
New trial granted. Tried again before a jury February 11, 1889, resulting in a verdict for plaintiff for \$300. Judgment entered on the verdict and judgment paid.

No. 312. CYRUS E. HALL VS. THE CITY.

Claim of \$5,000 damages from the same injury as the last above case. Tried with No. 311, and verdict against the city for \$200. Judgment entered on the verdict, and judgment paid.

No. 314.

ELIZABETH M. GALLAGHER VS. THE CITY.

Claim of \$1.025 for personal injuries from alleged defective sidewalk.

February 18, 1889, cause tried before the court and a jury. Dismissed on motion of defendant, after plaintiff rested. Judgment entered in favor of city for \$12.88 costs.

No. 321. MATHEW VILISKI VS. THE CITY.

Claim for \$2,469.78 for stone quarried from street opposite plaintiff's land. Tried by a jury June 1, 1888, resulting in a verdict for plaintiff of \$1,125. Appealed by defendant to the supreme court, and submitted prior to January 1, 1889. March 22, 1889, decision of supreme court reversing order of district court and determining for what damages plaintiff might recover. April 4, 1889, judgment entered in supreme court in favor of city for \$92.10 costs. May 24, 1889, judgment entered by agreement in the district court conforming to the ruling of the supreme court for the sup of \$1,025. court, for the sum of \$1,025.

No. 324. SAMUEL M. RICH VS. THE CITY.

Action for \$1,160 for quarrying stone out of the street adjacent to plain-tiff's land. Argued in supreme court prior to January 1st, 1889, on ap-peal of plaintiff. February 12, 1889, decision of supreme court rendered affirming order of court below dismissing the action. Judgment entered in supreme court in favor of city for \$41.55 costs.

No. 331. ROBERT H. GRAHAM VS. THE CITY.

Action to enjoin the city and its officers from paying money borrowed for use of the 9th ward. December 22, 1888, order sustaining demurrer entered by district court. Appeal by plaintiff. May 7, 1889, the supreme court affirmed the order of the court below. Judgment in supreme court for \$39.25 costs.

No. 332.

EDMUND KENT VS. THE CITY.

Claim for \$4,117 for personal injury from alleged defective sidewalk.

April 24, 1889, cause tried and verdict ordered for the defendant. September 3, 1889, new trial granted. December 16, 1889, cause tried before the district court and a jury, resulting in a verdict for defendant.

No. 336. STATE OF MINNESOTA ex. rel. GEORGE D. PERKINS, VS. CITY COUN-

CIL OF THE CITY OF MINNEAPOLIS.

Writ of mandamus to compel the payment of \$6,000 and interest for damages for taking land for Plymouth avenue. Judgment entered in the district court in August, 1888, for the relator. May 7, 1889, argued and submitted in supreme court on appeal of the defendant from the judgment of the district court. Decision in supreme court in favor of city reversing the order of the district court. Judgment in favor of city for \$70.90 certs in the supreme court. \$79.80 costs in the supreme court.

No. 338. EDWARD A. STEVENS VS. THE CITY.

NARD A. STEVENS VS. THE CITY.

Action for \$7,924 for services rendered in compiling charter and ordinances. Appeal to the supreme court by plaintiff from an order of the district court overruling motion for a new trial, entered March 20, 1889. November 19, 1889, cause argued and submitted in supreme court resulting in a decision affirming the order of the court below. Judgment entered in the supreme court in favor of the city for \$45 costs.

No. 339. STEPHEN HARDER VS. THE CITY.

Action for \$3,000 for personal injuries from alleged defective sidewalk. April 29, 1889, argued and submitted in supreme court on plaintiff's appeal from an order overruling a motion for a new trial, case having been dismissed by the district court on defendant's motion after plaintiff rested his case. Decision of supreme court reversing order of district court entered May 8, 1889. October 21, 1889, case again tried in district court resulting in a verdict for the defendant.

No. 340. ROSWELL P. RUSSELL VS. THE CITY AND OTHERS.

Action to restrain the city from paying claim to parties for work done in the 8th ward. July 5, 1889, judgment entered dissolving temporary injunction and dismissing the action.

- No. 341. JOHN T. BLAISDELL VS. THE CITY AND OTHERS.
 Same action as No. 340. July 5, 1889, judgment entered same as above.
- No. 342. HENRY N. AVERY VS. THE CITY AND OTHERS. Same as Nos. 340 and 341. Same judgment.

No. 346. JOHN T. LARSON VS. THE CITY.

Action for \$5,000 for personal injury from alleged defective sidewalk.

Action commenced December 28, 1888. June 13, 1889, cause tried before the district court and a jury resulting in a verdict for the defendant.

Schedule "B."

CIVIL ACTIONS PENDING JANUARY 1, 1889, NOT YET FINALLY DETERMINED.

No. 278. STATE OF MINNESOTA ex. rel. CITY OF MINNEAPOLIS, RELATOR,
vs. MINNEAPOLIS & St. Louis Railway Co., Respondent.
Application for writ of mandamus to compel the respondent to construct
bridges over its tracks where they cross Washington avenue, Third,
Fourth and Fifth streets. Pending in the Supreme Court of the United
States on a writ of error sued out by the respondent after decision of
the Supreme Court of the State of Minnesota in favor of the relator.
Motion to dismiss writ of error submitted in April, 1899; motion denied.
Now pending in the Supreme Court of the United States for trial.

No. 279. STATE OF MINNESOTA ex. rel. THE CITY OF MINNEAPOLIS, RELATOR, VS. ST. PAUL, MINNEAPOLIS & MANITOBA RY. Co., RESPONDENT.

Same action as No. 278. August 16, 1889, petition for a writ of error from United States Supreme Court to the District Court of Hennepin County. Action now pending for trial in the United States Supreme Court.

- No. 323. St. Anthony Falls Water Power Company vs. The City.

 Action to enjoin defendant from interfering with plaintiff's dams and other property on Hennepin Island, involving the city's right to water power to run the East side pumping station. March 7, 1889, decision and order for judgment by the district court ordering an injunction in favor of the city and against plaintiff, restraining plaintiff from cutting off the water supply to the East side station, but deciding that the amount of water to which it is entitled could not be determined in this action.

 March 21, 1889, motion by plaintiff for new trial argued and denied.

 Appeal by plaintiff to supreme court. Appeal argued and submitted June 28, 1889, and decision by the supreme court affirming the lower court in its ruling as to the right of the city to the use of the water, but reversing the lower court in its decision that the amount could not be determined in this action, and directing that this amount be fixed, and that plaintiff furnish the amount when determined to the city. Case pending in the district court for trial in accordance with the direction of the supreme court.
- No. 326. OREN LONGSTAFF vs. THE CITY et al.

 Claim of \$1.500 for personal injuries from alleged defective street. Pending in the district court on a motion of plaintiff for a new trial, verdict having been rendered in favor of plaintiff for \$1.
- No. 327. CHARLES O. BEDBURY VS. THE CITY et .al.

 Claim of \$1,500 for personal injury from alleged defective street. Pending in district court on a motion of plaintiff for a new trial, verdict having been rendered in favor of plaintiff for \$1.
- No. 328. Thomas W. Emery vs. The City et al.

 Action for \$70 upon a judgment recovered against the city's employee
 which the plaintiff claims to have bought on execution sale. Cause
 pending in district court. Nothing done since answer filed March 13, 1888.
- No. 330. St. Paul, Minneapolis & Manitoba Ry. Co. vs. The City.

 Action to restrain the city from using Como avenue where the same crosses plaintiff's tracks. October 12, 1889, cause argued and submitted in district court; taken under advisement; no decision rendered.

No. 334. St. Paul, Minneafolis & Manitoba Ry. Co. vs. The City.

Action to enjoin defendant from opening 22nd Avenue Northeast across plaintiff's tracks. September 26, 1889, cause tried and submitted in the district court; taken under advisement; no decision rendered.

No. 337. EVERETT BRUCE PRESTON VS. THE CITY.

Action in the United States Circuit Court for infringement of a patent.

Case being defended by the sureties on an indemnifying bond given the city.

No. 344. DAVID L. KEYES VS. THE CITY.

Action of ejectment to recover a portion of land claimed by the city as a street. April 30, 1889, cause tried in the district court and judgment ordered for the plaintiff. Appeal by the defendant from an order of the court denying motion for a new trial. Set for argument in the supreme court January 15, 1890.

No. 345. JOHN BERGQUIST VS. THE CITY.

Claim of \$10,862 for personal injury while working in a sewer. June 12, 1889, cause tried before the district court and a jury, and dismissed by the court on defendant's motion after plaintiff rested. Appeal by plaintiff to the supreme court from order of district court denying motion for a new trial. Cause set down for argument in supreme court January 27, 1890.

Schedule "C."

CIVIL ACTIONS BROUGHT DURING THE YEAR 1889 AND FINALLY DISPOSED OF.

No. 352. JOHN FITZGIBBON VS. THE CITY.

Action in the district court to recover \$5,000 damages for alleged injuries received from falling into an excavation. Action commenced February 9, 1889. Dismissed by the court November 13, 1889. plaintiff failing to appear.

No. 353. James Forrestal vs. The City.

Action in the district court to recover \$1,000, certified check deposited conditioned on the execution of a contract if awarded. On examination of the facts it appeared that the bid of plaintiff was withdrawn before the contract was awarded, and the check was therefore returned, and the action dismissed without costs.

No. 361. James H. Bradish vs. The City and Certain of its Officers.

Action in the district court commenced June 7, 1889, to restrain defendants from delivering a warrant and charging the amount thereof to the 9th ward street fund of the city, and crediting the same to the 1st ward street fund; the claim being that the city had no right to take from the 9th ward street fund. levied for work to be done in 1889, and pay an alleged indebtedness arising in 1887. August 3, 1889 demurrer to defendant's answer sustained.

No. 364. ALICE BARRY, AN INFANT, BY HER GUARDIAN ad litem vs. THE CITY.

Action in the district court to recover \$2,000 damages for injury received by obstruction in the street. Commenced July 23, 1889; dismissed by plaintiff October 17, 1889, the day set for trial in the district court.

No. 367. E. J. H. ESTABROOKS VS. THE CITY.

Action in the district court, commenced August 5, 1889, to recover possession of real estate claimed as a street. On investigation it appeared that the city had not properly condemned the premises, and plaintiff was allowed to take judgment without costs.

No. 370. F. W. Shonwalder vs. The City et al.

Action in the district court, commenced August 13, 1889, to recover \$1,650 damages alleged to have been caused by an obstruction in the street. December 10, 1889, cause tried before the court and a jury; verdict for the defendants.

No. 371. HARRY TUTTLE vs. THE CITY et al.

Action in the district court, commenced August 13, 1889, to recover \$1,025 damages alleged to have been received by reason of an obstruction in the street. December 11, 1889, cause tried before the court and a jury; verdict rendered for defendents.

No. 372. HARRY M. SULLIVAN VS. THE CITY et al.

Action in the district court, commenced August 13, 1889, to recover \$2,550 damages alleged to have been received by reason of an obstruction in the street. December 11, 1889, cause tried before the court and a jury; verdict rendered for defendants.

No. 376. Hugh Wilson and Edna M. Spry vs. The City et al.

Action in the district court, commenced September 25, 1889, to restrain defendants from executing a contract to pave Park avenue with asphalt. September 28, 1889, hearing on order to show cause; temporary injunction granted. The temporary injunction being granted practically ended the controversy, and no further steps were taken.

Schedule "D."

CIVIL ACTIONS BROUGHT DURING THE YEAR 1889, AND STILL PENDING.

No. 351. James Edwards vs. The City.

Action in the district court, commmenced January 25, 1889, to recover \$500 caused by plaintiff's horse falling into a hole in the street. Cause at issue January 29, 1889. No further steps taken.

No. 354. EDWARD L. LARSON VS. THE CITY et al.

Action brought in the district court February 25, 1889, to recover \$5,000 damages for injuries alleged to have been caused by a wire rope suspended across a street. June 14, 1889, cause tried before the court and a jury, and a verdict rendered for defendants. Appeal taken by plaintiff to the supreme court, where action is now pending.

No. 356. Castina Tippett vs. The City.

Action in the district court, commenced March 2, 1889, to recover \$5,500 damages for injuries alleged to have been sustained by reason of a defective sidewalk. Cause on calendar for trial.

No. 357. NICHOLAS HENKES VS. THE CITY.

Action in the district court, commenced March 2, 1889, to recover \$5,000 damages alleged to have been sustained by reason of a fall on an icy sidewalk. May 9, 1889, cause tried before the court and a jury, and dismissed on motion of defendant at the close of plaintiff's case. Appeal by plaintiff to supreme court, where case is now pending.

No. 363. St. Paul, Minneapolis & Manitoba Ry. Co. vs. The City.

Action in the district court, commenced June 19, 1889, to enjoin defendant
from opening 19th Avenue Northeast across plaintiff's tracks. September 26, 1889, cause tried before the court, and taken under advisement.

No. 365. CITY OF MINNEAPOLIS VS. MINNESOTA BRUSH ELECTRIC Co. et al.

Action in the district court to recover \$5,000 on bond given to indemnify the city from loss by reason of a contract made with the Electric company for lighting certain portions of the city. Commenced July 25, 1889, on the calendar for trial.

No. 366. C. W. CLARK VS. THE CITY.

Action in the United States Circuit Court, commenced July 9, 1889, to restrain the city from using a certain sewer machine, claiming an infringement on a prior patent. The city has a bond to indemnify it, and the bondsmen are taking care of the action.

No. 368. MARY J. HEMPERLY VS. THE CITY.

Action in the district court, commenced August 8, 1889, to recover \$10,350 damages for an alleged injury caused by a defective sidewalk. Case on calendar for trial.

No. 369. MOORE & CO, vs. THE CITY.

Action in the district court, commenced August 8, 1889, to recover \$151 and interest, money paid for license to carry on employment agency. Complaint demurred to, and, September 27, 1889, demurrer argued and sustained by the court. Appeal by plaintiff to supreme court.

No. 373. MARY COLLINS VS. THE CITY.

Action in the district court, commenced August 23, 1889, to recover \$5.000 for injuries alleged to have been caused by water-pipe projecting above the sidewalk. Case on calendar for trial.

No. 374. Andrew C. Lund vs. The City.

Action in the Circuit Court of the United States, commenced September II, 1889, to recover \$25.000 damages for injuries alleged to have been received while plaintiff was working for the city in the construction of a sewer. Case on calendar, set for trial January 11, 1890.

No. 375. The State of Minnesota ex. rel. St. Paul, Minneapolis & Manitoba Ry. Co. vs. The District Court.

Writ of certiorari, in the matter of opening 31st Avenue Northeast across the tracks of the Manitoba road. The district court held in the appeal from the award of the commissioners appointed by the city council, that the railroad company was entitled to the cost of constructing the planking, cattle guards and signs made necessary by the opening of the street. November 19, 1889, the cause was argued and submitted in the supreme court; and on December 26, 1889, a decision was rendered by the supreme court reversing the order of the court below, determining that the city was only liable for the cost of constructing and maintaining the planking; the railway company contending in the supreme court that the city must pay the cost of constructing and maintaining the planking, cattle guards and signs.

No. 377. MINNEAPOLIS SIDEWALK & PAVEMENT CO. vs. THE CITY et al.

Action in the district court, commenced September 28, 1889, for an injunction restraining the city from paying for curbing on Portland avenue under a contract with Augustus G. Parkhurst. The city is a nominal defendant. The action is on the court calendar for trial.

No. 378. MARIA OLSON VS. THE CITY.

Action commenced in the Circuit Court of the United States October 24, 1889, for \$5.000 damages for injuries alleged to have been received by reason of defective sidewalk. Case on calendar for trial.

No. 379.

PETER PETERSON VS. THE CITY.

Action in the Circuit Court of the United States, commenced October 24, 1889, for \$20,000 damages by reason of an alleged injury received while working in a sewer. Case on calendar for trial.

No. 383.

LUDWIG L. ANDERSON VS. THE CITY.

Action in the municipal court, commenced December 5, 1889, to recover

\$420 for personal property taken from plaintiff while under arrest.

Cause on calendar for trial.

Schedule "E."

*CASES TRIED IN MUNICIPAL COURT FOR VIOLATIONS OF CITY ORDINANCES AND STATE LAWS, WHERE THERE WAS A CONTEST, ATTORNEYS APPEARING FOR THE DEFENDANTS.

Disorderly Conduct. Drunkenness. Keeping houses of ill fame, being inmates of houses of ill fame, Prostitution and Fornication. Violation of liquor laws. Keeping gambling house, assault and battery, using abusive language. and others not classified.	54 64
Total 433 Found Guilty 433 Found not guilty 133	566 566

Released on habeas corpus after commitment.....

ANNUAL REPORT

OF THE

CITY CLERK

OF THE

City of Minneapolis

For the Fiscal Year Ending December 31, 1889.

CHAS. F. HANEY, - City Clerk.

MINNEAPOLIS: HARRISON & SMITH, PRINTERS. 1890.

CITY CLERK'S DEPARTMENT.

CHAS. F. HANEY, - City Clerk. F. M. CLARK, - Assistant Clerk.

ANNUAL REPORT

OF

CHAS. F. HANEY, CITY CLERK

OF THE CITY OF MINNEAPOLIS, 1889.

CITY CLERK'S OFFICE, MINNEAPOLIS, January 17, 1890.

To the Honorable City Council, City of Minneapolis:

GENTLEMEN-I have the honor to submit herewith my annual report of

fees and moneys received during the year 1889.

As there has been some misunderstanding as to the construction of the law governing the receipts of my office, I respectfully submit the following correspondence with Robert D. Russell, city attorney, relative to this matter:

When the bill passed by the legislature of 1889 became a law, the city clerk, by its terms was required to pay into the city treasury, fees and moneys, "allowed by public law." Believing that this was the only provision of the law that related to the office of city clerk, and in order to ascertain whether this provision applied to the ordinances of the city as well as to the general and special laws of the state, I addressed the following request to the city attorney:

"MINNEAPOLIS, April 25, 1889.

Robert D. Russell, City Attorney:

DEAR SIR—Will you please give me your opinion as city attorney, whether city ordinances are recognized in law as "public laws?"

Very respectfully, CHAS. F. HANEY, City Clerk."

To the above request the following reply was received:

"Chas. F. Haney, Esq., City Clerk:

Dear Sir—In reply to the question "Are the city ordinances recognized in law as public laws?" asked in your letter of April 25th, I have to say, that in the sense in which the term "public laws" are used, ordinances are not public laws. The general statuts of the state and the city charter by special enactment of the legislature are known as public laws in court, and need not be pleaded or proven, the court taking judicial notice of them. Ordinances must be pleaded and proven before the court will recognize them. This, however, is not altogether a proper definition of a public law. Public laws are those that affect the duty of the citizen to the state as distinguished from private laws which affect the duty of one citizen to another. In this sense ordinances passed under a power granted by the legislature for the preservation of public order may be valid public laws; but where it comes within the definition of a private law, that is the duty of one citizen to another, it would probably be termed a private law.

Very truly yours, ROBERT D. RUSSELL, City Attorney."

Very truly yours, ROBERT D. RUSSELL, City Attorney." In conformity with the law as thus interpreted and understood, I promptly reported monthly to the city council what fees and moneys I had received by public law and paid into the city treasury. After making my monthly report for December, 1889, an attempt was made to show that all the fees due the city under the new law had not been paid to the city treasurer. In order that an adjustment of the matter might be made that would be not only in strict compliance with the requirements of the law, but also satisfactory to the people who had supposed that all fees were being paid the city, instead of those accruing from "public law" only, I addressed the following the city instead of those accruing from public law interpreted and understood, I promptly in the city and the city instead of those accruing from public law.

lowing request to the city attorney:

"MINNEAPOLIS, January 6, 1890.

Robert D. Russell, City Attorney:

DEAR SIR—In view of the difference of opinion relative to the exact disposition of the receipts of my office, I respectfully ask that you inform me of the proper construction of the law relating to the same. A recognition at your earliest convenience will oblige me, as I desire to effect a settlement with the city treasurer before submitting my annual report to the city council. Respectfully

CHAS. F. HANEY, City Clerk."

His reply was as follows:

MINNEAPOLIS, January 8, 1890.

Chas. F. Haney, Esq., City Clerk:

My Dear Sir-In answer to yours of January 6, asking my opinion as to the law governing the receipts of your office, in order that you may make a proper settlement for the business of 1889, I have to say: The charter, as The charter, as amended by the legislature of 1889, contains two provisions which I think relate to the receipts of your office. The first is an amendment to the last

paragraph of section 3, chapter 3, and now reads as follows:

The clerk shall have power to administer oaths and affirmations. shall perform all other services by law required of clerks of cities or townships within said city. He (the clerk) shall receive a salary of \$3,100 per annum, and all clerk hire shall be paid by the city. He shall pay into the city treasury on the last day of each month, all fees and moneys allowed by public law and collected by him during that month, and shall hold his office for the term of two years, beginning with the day of his qualification as clerk.

This provision took the place of the following provision in the charter

existing prior to 1889.

"The clerk shall have power to administer oaths and affirmations. He shall perform all other services by law required of clerks of cities, or townships within said city; but when services are required of him, by public law for which compensation is made from state or county treasury, such services shall not be regarded as services for said city, and he may retain such compensation in addition to the salary paid by such city."

The intention of this amendment was that all fees coming to your office by reason of any general law authorizing the payment of certain fees to clerks of cities, should be covered into the city treasury, and should not belong to the clerk individually as formerly. The second provision of the charter is the

second paragraph of section 29, chapter 3, which reads as follows:

"All fees and emoluments of whatever character accruing to any city officer as such officer, shall be reported to the city council monthly, and paid into

the city treasury."

This provision relates to all fees coming into your hands as clerk, by reason of any ordinance of the city, or any law by which fees are paid to you as clerk of the city, other than what is included in the section I have first quoted

relating to fees coming to you by reason of general laws.

My construction of these two provisions is that all fees of every character coming to you by reason of your being city clerk should be accounted for by you and paid over to the treasurer; that is to say, all fees that would not come to you except for the fact that you are city clerk should be returned by

you to the city.

Applying this construction to the items of receipts appearing on your books, you should account to the treasurer for all moneys received from certifying plats of additions to the city, from dog tax and dog tags, from issuing permits for the removal of buildings, which are commonly called "mayor's permits," under the ordinance entitled, "An ordinance concerning streets, sidewalks, alleys, etc.," approved April 29, 1873, and as since amended, appearing on page 1003 of the published ordinances of said city; all fees received from issuing liquor licenses, for certifying copies of any papers in your office, for duplicate dog tags, for filing chattel mortgages, and for filing all certificates of births and deaths. Any moneys received by you for acknowledgments, or in connection with your notary public office, or for making statistics for mercantile agencies, belong to you individually, as they are not properly related to your office of city clerk.

Very truly yours,

Complying strictly with the law as thus set forth, the following are the receipts and disbursements of the fees of my office for the eight months since the new law went into effect.

CHAS. F. HANEY TO CITY OF MINNEAPOLIS, DR.

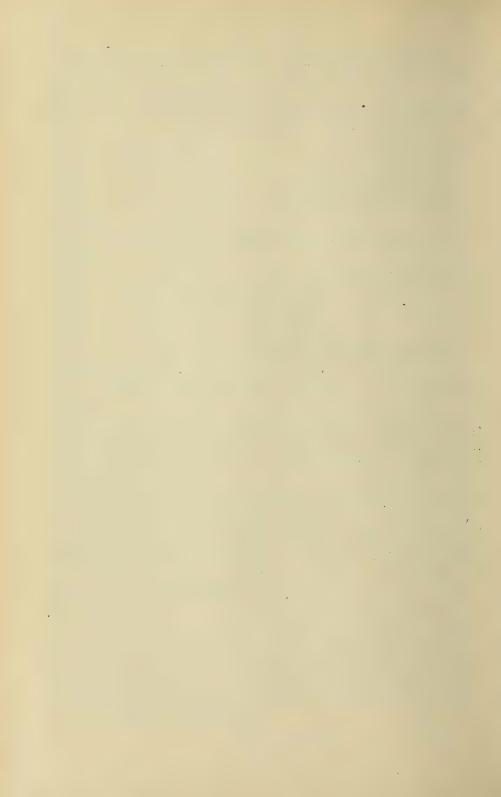
	· · · · · · · · · · · · · · · · · · ·	
Plumbers's licenses, 61 at \$2. Amount received from candidates for election (Australian law). Male dog licenses, 4,532 at \$1. Female dog licenses, 405 at \$2. Duplicate dog tags, 697 at 25 cents. Regular dog tags, 4,937 at 20 cents. Applications for liquor licenses, 303 at Charter and ordinances sold, 10 sets a Mayor's street permits, 169 at \$1. Certified copies, plats and certificate		\$1,108.30 214.40 122.00 15.00 4,532.00 810.00 174.25 987.40 303.00 169.00 179.00 3,45
		. \$8,647.80
To recording births and deaths for eighted all returns are allowed)	t months, \$3,477 at 25 cents (providing	869.25
Total		\$9,517.05
D	CR.	
By amount paid city treasurer June 5,	1889	\$4,725.40
July 10,	1889 2, 1889	670.50
" " Soptomb	per 4, 1889.	342.00
	4, 1889.	283.20 224.60
	er 8, 1889	232.50
	er 5, 1889.	155,80
" " December	er 31, 1889	165,70
Amount paid E. R. Williamson for de	og tags	58.50
Amount paid for advertising liquor i	notices	44.35
Amount paid city treasurer January	y 17, 1890	1,745.25
	_	PO C 117 00
By amount due from the state for rec	cording hirths and deaths as above not	\$8,647.80
yet received		869.25
Total	_	\$9,517,05
1.0001		Φ9,011.00

Until the receipt of the last opinion of the city attorney, your clerk supposed that the provisions of the charter relative to "public law" was the only one that affected his office, and the amount of fees received by "public law" was all that was required to be paid into the city treasury. The other provision of the charter relating to "all fees and emoluments, etc.," was never before applied to the office of city clerk, and all my predecessors retained such fees, though this has been in the charter for many years, and is not a new provision as some might think from the city attorney's reference. In addition to the amount received by "public law" must now be added the amount received by "sundry ordinances" and "by virtue of the office."

The amount received by sundry ordinances was given to be \$1,216.90, in which was unintentionally included \$30.00 received from the sale of charter and ordinances, thus reducing this amount to \$1,186.90. The amount received "by virtue of the office," such as duplicate dog tags, certified copies, etc. is \$558.35, all of which is fully set forth in the above statement.

etc, is \$558.35, all of which is fully set forth in the above statement. Respectfully submitted,

CHAS. F. HANEY, City Clerk:



ANNUAL REPORTS

OF THE

Registrar and Supervisor of Water Works.

OF THE

City of Minneapolis

For the Fiscal Year Ending December 31, 1889.

F. T. MOODY, - Registrar.

J. H. McCONNELL, - Supervisor.

MINNEAPOLIS: HARRISON & SMITH, PRINTERS. 1890.

WATER WORKS DEPARTMENT.

REGISTRAR'S DIVISION.

F. T. MOODY, Registrar.

DAN. C. BROWN, Cashier.

E. R. RYAN, Book-keeper.

A. E. ALLEN, Meter Inspector.

J. J. Jeffery, Inspector.

FRANK L. GOWEN, Inspector.

SUPERVISOR'S DIVISION.

J. H. McConnell, Supervisor.

E. C. Pratt, Clerk.

GEO. C. HOWSER, Pipe Inspector.

D. ROYAL, Inspector.

STREET SERVICE DIVISION.

WM. WINTHEISER, Foreman.

ENGINEERS.

Andrew Bergstrom, Engr. North Side Pump House. Frank X. Holl, Asst. Engr. North Side Pump House. Thomas Cowan, Engr. West Side Pump House. Ed. Lunden, Asst. Engr. West Side Pump House. M. V. Buswell, Engr. East Side Pump House. Wm. Eggleston, Asst. Engr. East Side Pump House.

ENGINEERING DEPARTMENT.

W. W. REDFIELD, Asst. Engr. Water Works.

G. Bogert, Draughtsman.

WATER WORKS COMMITTEE OF CITY COUNCIL.

F. C. Barrows, Chairman.

J. M. MELOY.

O. A. FULTZ.

G. H. WARREN.

THOMAS DOWNS.

ANNUAL REPORT

OF THE

REGISTRAR OF WATER WORKS.

MINNEAPOLIS, January 1, 1890.

To the Hon. City Council, City of Minneapolis:

GENTLEMEN—In accordance with your instructions, I again have the pleasure of submitting the annual report, together with a copy of the same, of the Registrar of Water Works for the year ending December 31, 1889.

During the year the work in my department has increased in all branches at the rate of thirty-three and one-third per cent. We have made 999 connections to the city mains, making a total number of taps in the city of 8,473; we have issued 1,046 extension permits, making a total of 5,396 in the city; during the year there has been made 3,860 house inspections by our inspectors. The department has collected for water taxes during the year \$157,514.22 being an average of \$13,126.19 per month. The general running expenses of the department has been \$62,631.31 or an average of \$5,219.27 per month as against \$5,586.07 per month for the previous year. This is very gratifying, in view of the increased amount of labor performed during the present year, also the fact that during two months of this period we have been running the North Side station, and pumping nearly all the city supply from that station with

steam power, instead of water power as formerly.

The waste of water in this city is now very large, and is alarming in a monetary view, not that we have not supply enough, for we have, our pumping capacity being 73,000,000 gallons daily, with an average of about 13,000,000 gallons pumped per day, but in the fact that every gallon pumped now represents dollars and cents, as our total supply is pumped by steam from our new North Side station. It may be said, "why don't the proper city officers take steps to remedy this waste of water;" we will say that our laws, as they now exist, are not adequate, and are defective. Your committees on water works, under whose charge the department is now directly placed, are at this time considering suitable amendments to the existing ordinance, which with your co-operation and approval, it is hoped may become laws. With these proposed amendments we will be in a position to thoroughly control the water system of this city. It is not proposed to make laws which will be a burden on our citizens, but such laws as can be adjusted to meet all cases. I think I can truthfully say, that all officers of this department as well as every member of your honorable body are justly proud of our lawns, made so no doubt by the free use of city water; these we would not have otherwise, but when citizens will deliberately hang their hose in some convinent tree or remove the nozzle, and lay the hose on the ground to run at full head all day, and possibly all night, making a nuisance on the walks and in the gutters, there is where the line should be drawn. I find by a complete house inspection, that there is not more than one business block in seven, including the older buildings, and not including buildings recently erected, or buildings having water meters, but what they are running $\frac{1}{2}$ to 1 inch streams of water into the sewer at all times. The only remedy for this is for your honorable body to pass such laws as will provide adequate penalties for all places where the ordinance may be violated (including the city departments.)

There is a growing tendency among our citizens to use their city water through a water meter, but owing to the fact that our laws as now constituted require them to buy the meter and pay for the setting of the same,

entailing an extra expense of about \$25.00, they hesitate.

I recommend that you pass an amendment to our ordinance providing: that the Registrar shall cause to be set a water meter on all business blocks. laundries, etc., at the cost of the city; this will pay in the diminished

amount of water we will be required to pump.

I also recommend that any owner of property in which there is city water, can have a water meter set by the city (the same as the Gas company), the same as nearly every other city does where they have a city water supply. Of course there will be some expense attached to this plan, which I would provide for in a moderate rental for the meter, based on the life, cost and interest on the investment. I am sure that this is what a majority of water users desire, and is the only way to solve the equalization of rates and the

great waste of water.

We have now in use in the city 372 water meters and elevator registers. Of this number 124 were set during the year; there are 26 hydraulic elevators with 4-inch connections. These elevators are not provided with meter connections, but have instead registers placed on some traveling part of the ele-I am of the opinion that each elevator connection as they now exist water. I am of the opinion that each elevator connection as the fact should have a meter with a suitable pressure regulator attached. This would to some extent provide against the back ram on the mains and on all plumbing throughout the city. I have seen our pressure gauge in this office vary 150 pounds in one second. This I claim is almost entirely caused by the large connections being suddenly opened and as suddenly closed. It can be readly undersrood what effect this ram would have on almost any plumbing put in. A plumbing job may have originally been of the best, but it takes a very short time to start the best of it to leaking. Of course when this occurs it is laid at the door of the ever-abused plumber, whether justly or not in all cases I will leave to your honorable body to judge.

The practice of allowing large connections for hydraulic elevators has been stopped by your committee on water works. the "tank" system. All elevators should be run by

The labor performed in this department during the year has been done to the entire satisfaction of myself, and I think to the public, as we have not heard of any dissatisfaction. All records are in good shape, our accounts have been checked by the city comptroller by months and found correct as per his certificates. To the help of this office can be attributed the greater part of this most satisfactory showing. To them I desire to return my most sincere thanks, also to your committee on water works, who have in every way helped and presided over one of the most important departments in this city in the most satisfactory way to all.

I have prepared the following tables in my report in detail for the benefit of those who may desire it. I have also prepared the first table in totals for

those who do not care for details.

Yours respectfully, FRANK T. MOODY, Registrar Water Works.

Table No. 1.

Showing Receipts, Disbursements, Bonded Debt, Rate of Interest and Balances of the Water Department for the year ending January 1, 1890.

Receipts.		
Balance January 1, 1889. Water rents, penalties, etc.	\$79,558.42 157,514.22	
Water main assessments	103,868.52 4,701.86	
Advances to lay mains	4,701.86	
Total actual receipts	\$346,543.	24
Loan returned from permanent improvement fund	\$50,000.00 50,000.00	
Error in pay rolls. Amount not claimed on pay rolls.	71.73	
Amount not claimed on pay rolls	83.40 37.70	
•		
Total transfers	100,192.	83
Total transfers and receipts	\$446,736.	07
New water mains	\$118,570.24	
General running expenses	62,631.31 51,366.80	
North Minneapolis station	33,804.07	
Water main advancements	3,534.30 3,286.25	
Water meters	6,201.51	
Motol owner ditures	\$279,394.	40
Total expenditures		
resent any expenditure). Balance to credit water works fund January 1, 1890.	100,000.	
Balance to credit water works fund January 1, 1890	67,341.	99
Dougland dally again and an arrange of second and secon	\$44 6,736.	07
Bonded debt of the city on account of water works (average rate of interest, $\$47_{100}$ per cent.)	\$1,235,000.	00
Table No. 2.		
Showing Comparison of Receipts for Water Rents, Penalty January 1, 1890, inclusive.	ies, etc., from 1872 i	to
1872	\$27,450.	09
1873.		
1874 3,421.96 1884		
1875 . 4.685.27 1885 . 1876 3,029.95 1886		
1877 6,521.16 1887		50
1878. 10,225,75 1888. 1879. 12,402.94 4889, Ten months en	ding Jan. 1. 137,178.	
1880. 15,926.05 1890		
1881		

Table No. 3.

Showing in Detail Expenditures on Account of Pump House No. 1 Expense.

1889.		
Jany. 2.	Rent of 4 mill powers to January 1, 1889	\$1,000.00
	2 Barrels oil	18.90
	Fuse and caps	1.35
	Pay roll	71.73
	Material	37.64
	Coal	11.73
15.		45.45
	Caissons slides, stock, &c	75.00
	Gas, December 1888	39.42
	Hardware	5.50
	Gasoline	5.78
	1 Can cement	.30
29.	Blacksmithing.	23.84
	Packing	8.45
	Wrenches and tongs	6.60
	Coal	344.04
	Gas Jauuary 1889.	43.20
	Pay roll	983.30
	Telephone, January	3.00
	Pay roll	223.53
Feby. 11.	Paint, oil, &c	2.40
	Hardware	23,30
	46	7.13
	108th Waste	58.80
	Telephone, February	3.00
26.	Gasoline	2.98
	Coal	318.25
	Pay roll	966.11

April 2. Telephone, March			•	
Larrel Gasoline	Mar.	12.	Gas, February	17.28
Larrel Gasoline	Anril	2	Telephone, March	3.00 1,000.00
Blacksmithing	zxpi ii	~.	1 Barrel Gasoline	5.78
Pay roll Store S			Coal	239.56
Pay roll Store S			Telephone April	12.55 3.00
30. Soap and lye. Caulking mud drum Gas, March Olitholder Gas, March Olitholder Gas, March Olitholder Gas, March Olitholder Gas, Pay roll Gas, Material Cas, Caster Charts Gas, Caster Charts Gas, Caster Charts Gas, April Gas, May Gas, April Gas, May Gas, April Gas, May Gas,			Pay roll	870.06
Gas, March		30.	Soap and lye	4.15
Oil			Caulking mud drum	1.35 14.94
May 14				1.00
Emery cloth. 28. Pay roll. 63. 63. 63. 63. 64. Ten packing. 65. 66. 66. 66. 66. 66. 66. 6			Pay roll	665.28
28. Pay roll	мау	14.		3.50 .45
Jan. 4. Ten packing 01. 9 01. 9 Material. 22 25. 25. 250 register charts. 7 Brooms etc. 3 Material. 10 Telephone, May. 3 Telephone, June. 3 Gas, April. 17 Gas, May. 14 July 2. 1 dox 1ye. 662 Gas, June. 10 16. Hardware. 10 17. Telephone, July. 23 30. Labor and material. 22 Pay roll. 650 Aug. 13. 48 rubber valves. 31 27. Stationery. 9 Pay roll. 650 Aug. 13. 48 rubber valves. 13 Hardware. 15 17. Repairing tin cans. 11 Barrel Infine oil 18 Barrel Infine oil 18 Barrel Infine. 14 Rent 4 mill powers to October 1,000 Hardware. 10 Cet. 1. Material. 11 Barrel Infine. 12 Dusters. 11 Cass. September 12 Cass. Pay roll. 16 Cass. Pay roll. 17 Cass. Pay roll. 17 Cass. Pay roll. 18 Cass. Pay roll. 19 Cass		28.	Pay roll	653.00
Material 2 2 2 2 2 2 2 2 2	Jan.	4.	Ten packing	2.40
Brooms etc.				9.30
Brooms etc.		25.		2.20 7.50
Telephone, May. Telephone, June. Gas, April. Gas, May. Pay roll. Idoz. Iye. Rent. 4 mill powers to July. Gas, June. 101 102 103 104 105 105 105 105 106 107 108 108 108 109 108 109 108 109 108 109 109 109 109 109 109 109 109 109 109			Brooms, etc.	3:50
Telephone, June 3 6 6 6 6 6 6 6 6 6			Material	10.0 3.0
Gas, April. 17 Gas, May. 14 Pay roll. 632 fuly 2. I doz. lye. 8632 Rent. 4 mill powers to July 1,000 Gas. June. 9 18. Hardware 10 Telephone, July. 33 30. Labor and material. 29 Pay roll. 650 Aug. 13. 48 rubber valves. 31 27. Stationery 650 Gas. Juny. 11 Gas. August. 31 Hardware. 31 Hardware. 31 Barrel engine oil. 20 Barrel lime. 42 Pay roll. 81 Lumber. 44 Rent 4 mill powers to October 11 Lumber. 45 Gas. Sept. 36 Gas. September 32 Gas. September 33 Telephone, October 33 Hardware 41 Hardware 21 Hardware 32 Hardware 32 Hardware 34 Hardware 35 Harrel joil. 19 Hardware 36 Gaskets. 34 Harrel gasoline 35 Harrel joil. 19 Hardware 36 Hardware 36 Hardware 36 Hardware 36 Hardware 37 Hardware 37 Hardware 37 Hardware 38 Hardware 39 Hardware 39 Hardware 30 Hardware			Telephone, June.	3.0
Pay roll. 632 632 633 633 633 634 635 635 635 636 636 636 637 637 638			Gas, April	17.8
Table Tabl			Gas, May	14.4 632.6
Rent, 4 mill powers to July	ulv	2.	1 doz. lye	.9
Gas. June. 99 10 12 10 12 10 12 10 13 13 14 10 12 10 13 13 14 10 10 10 10 10 10 10			Rent, 4 mill powers to July	1,000.0
Telephone, July 33 30 Labor and material 29 Pay roll 650 650 32 78 78 78 78 78 78 78 7		18	Gas, June	$9.5 \\ 10.2$
Aug. 13. 48 rubber vaives		10.	Telephone, July.	3.0
Aug. 13. 48 rubber valves 31 27. Stationery. 650 Pay roll. 650 Gas. July. 13 Hardware. 6 Telephone, August. 6 17. Repairing tin cans. 1 Box pomade. 20 Barrel engine oil 20 Barrel lime. 817 Lumber. 4 Pay roll. 817 Lumber. 4 Rent 4 mill powers to October. 1,000 Hardware. 1 Oct. 1. Material. 1 Barrel lime. 11 29. Inspecting boilers. 11 2 Barrels lime. 22 Oil and gasoline. 5 2 Barrels lime. 1 Pay roll. 886 Telephone, September. 3 Telephone, October. 3 Robert. 3 Nov. 12. I Box candles. 3 Labor and material. 1 Hardware. 1 2 Wood cylinders. 3 Gaskets. 4 </td <td></td> <td>30.</td> <td>Labor and material</td> <td>29.3</td>		30.	Labor and material	29.3
27. Stationery 23. Pay roll. 650 6	Ana	19	Pay roll	$650.0 \\ 31.2$
Pay roll. 650	rug.			.7
Gas, August 13 Hardware. 6 17. Repairing tin cans. 1 Box pomade. 20 Barrel engine oil 20 Barrel lime. 21 24. Pipe, etc. 4 Pay roll. 817 Lumber. 4 Rent 4 mill powers to October 1,000 Hardware. 1 Det. 1 Material. 1 Barrel lime 1 29. Inspecting boilers 11 2 Dusters 1 Gas, September 22 Oil and gasoline 5 2 Barrels lime 1 Pay roll. 886 Telephone, September 3 Telephone, September 3 Telephone, September 3 Labor and material 1 Hardware 1 2 Wood cylinders 3 Gaskets 4 1 Barrel gasoline 2 2 Barrel lime 24 26. 90 Pounds waste 7 Lumber 1 <td< td=""><td></td><td></td><td>Pay roll</td><td>650.0</td></td<>			Pay roll	650.0
Hardware. Telephone, August. 6 17. Repairing tin cans. 1 Box pomade. 20 Barrel lengine oil. 20 Barrel lime. 4 Pipe, etc. 4 Pay roll. 817 Lumber. 4 Rent 4 mill powers to October. 1,000 Hardware. 10 11 20 11 20 11 20 11 20 11 20 11 20 20	Sept.	3.	Gas, July	1.2 13.8
Telephone, August			Hardware	.4
Box pomade 20 Barrel lengine oil 20 Barrel lime 4 Pay roll 817 Lumber 4 Rent 4 mill powers to October 1,000 Hardware 1 Oct. 1 Material 1 Barrel lime 11 29. Inspecting boilers 11 2 Dusters 1 Gas, September 25 Oil and gasoline 2 2 Barrels lime 1 Pay roll 886 Telephone, September 3 Telephone, September 3 Telephone, October 3 Telephone, October 3 Labor and material 1 Hardware 1 Gaskets 4 1 Barrel gasoline 2 2 Wood cylinders 2 Gaskets 4 1 Barrel lime 9 26. 90 Pounds waste 7 Lumber 24 1 Maple collar 5 <t< td=""><td></td><td>-4 100</td><td>Telephone, August</td><td>6.0</td></t<>		-4 100	Telephone, August	6.0
Barrel engine oil 20 Barrel lime 4 24. Pipe, etc. 4 Pay roll. 817 Lumber. 4 Rent 4 mill powers to October 1,000 Hardware. 1 Oct. 1. Material. 1 Barrel lime. 1 29. Inspecting boilers 11 2 Dusters 1 Gas, September 22 Oil and gasoline 5 2 Barrels lime 1 Pay roll. 886 Telephone, September 3 Telephone, September 3 Telephone, September 3 Telephone, October 3 Gaskets 3 Labor and material 1 Hardware 1 2 Wood cylinders 3 Gaskets 4 1 Barrel gasoline 2 1 Barrel oil 19 1 Barrel lime 2 26. 90 Pounds waste 7 Lumber 3 1 Barrel gasoline 5 2		17.	Repairing tin cans	1.30
24. Pipe, etc. 4 Pay roll. 817 Lumber. 4 Rent 4 mill powers to October. 1,000 Hardware. 1 Det. 1. Material. 1 Barrel lime. 11 29. Inspecting boilers. 11 2 Dusters. 1 Gas, September. 22 Oil and gasoline. 5 2 Barrels lime 1 Pay roll. 886 Telephone, September. 3 Telephone, October. 3 Telephone, October. 3 Labor and material. 1 Hardware. 1 2 Wood cylinders. 4 Gaskets. 4 1 Barrel gasoline. 2 2 Gaskets. 4 1 Barrel lime. 24 2 Mood cylinders. 2 Gaskets. 4 1 Barrel oil. 19 1 Barrel poil. 19 1 Barrel gasoline. 5 2 Pay roll. 670 1 Washer. 2 1 Hardwar			Barrel engine oil	20.1
Pay roll.		0.4		.73
Lumber		24.	Pay roll	4.03 817.4
Rent 4 mill powers to October 1,000 Hardware. 1 Barrel lime. 11 29. Inspecting boilers 11 2 Dusters. 1 Gas, September 22 Oil and gasoline 5 2 Barrels lime 1 Pay roil. 886 Telephone, September 3 Telephone, September 3 Telephone, September 3 Labor and material 1 Hardware 1 2 Wood cylinders 3 Gaskets. 4 1 Barrel gasoline 2 1 Barrel oil. 19 1 Barrel lime 1 26. 90 Pounds waste 7 Lumber 24 1 Maple collar 24 Telephone, November 3 1 Barrel gasoline 5 Pay roll 670 Dec. 3. Oil and can 1 Hardware 10 17. I Washer 21 Hardware 22 Gas, October 21 Gas, Oc			Lumber	4.3
Oct. 1. Material. 1 Barrel lime 29. Inspecting boilers 11 2 Dusters 1 Gas, September 22 Oil and gasoline 5 2 Barrels lime 1 Pay roll. 886 Telephone, September 3 Telephone, October 3 Nov. 12. I Box candles 3 Labor and material 1 Hardware 1 2 Wood cylinders 4 Gaskets 4 I Barrel gasoline 2 I Barrel lime 2 26. 90 Pounds waste 7 Lumber 24 I Maple collar 24 Telephone, November 3 I Barrel gasoline 5 Pay roll 670 Dec. 3. Oil and can 1 Hardware 10 17. I Washer 2 Hardware 2 Gas, November 27 Telephone, December 27 Telephone, December 27 Telephone, December 27			Rent 4 mill powers to October	1,000.0 .3
Barrel lime. 11 2 2 1 1 2 2 1 1	Oct.	1.	Material	1.9
2 Dusters			Barrel lime.	.7
Gas, September. 22 Oil and gasoline. 5 2 Barrels lime 1 Pay roll. 886 Telephone, September 3 Telephone, October 3 Nov. 12. 1 Box candles 3 Labor and material 1 Hardware 1 2 Wood cylinders. 2 Gaskets. 4 1 Barrel gasoline 2 1 Barrel lime 2 26. 90 Pounds waste 7 Lumber 24 1 Maple collar 24 Telephone, November 3 1 Barrel gasoline 5 Pay roll 670 Dec. 3. Oil and can 1 Repairing 4 Hardware 10 17 1 Washer 4 Hardware 2 Gas, October 21 Gas, November 27 Telephone, December 3 Pay roll 4 I Barrel Oil 4		29.	Inspecting boilers	11.0 1.5
Oil and gasoline 5 2 Barrels lime 1 Pay roll 686 Telephone, September 3 Telephone, October 3 Telephone, October 3 Telephone, October 3 I Bavendles 3 Labor and material 1 Hardware 1 2 Wood cylinders 4 Gaskets 4 I Barrel gasoline 2 1 Barrel lime 1 26 90 Pounds waste 7 Lumber 24 I Maple collar 2 Telephone, November 3 I Barrel gasoline 5 Pay roll 670 Dec. 3. Oil and can 1 Hardware 1 Hardware 2 Gas, October 21 Gas, November 27 Telephone, December 27			Gas. September.	$\frac{1.5}{22.5}$
Pay roll. 886 Telephone, September 3 Telephone, October 3 Nov. 12. I Box candles 3 Labor and material 1 Hardware 1 2 Wood cylinders 4 Gaskets 4 I Barrel gasoline 2 I Barrel oil 19 I Barrel lime 2 26. 90 Pounds waste 7 Lumber 24 I Maple collar 3 Telephone, November 3 I Barrel gasoline 5 Pay roll 670 Dec. 3. Oil and can 1 Hardware 10 Hardware 10 Hardware 2 Gas, October 21 Gas, November 27 Telephone, December 27 Telephone, December 3 Pay roll 4 I Barrel Oil 49			Oil and gasoline	5.2
Telephone, September 3 Telephone, October 3 3 Telephone, October 3 3 Italian 3			2 Barrels lime	1.4
Telephone, October 3			Telephone, September.	3.0
Labor and material 1 Hardware 1 2 Wood cylinders 1 Gaskets. 4 1 Barrel gasoline 2 1 Barrel oil 19 1 Barrel lime 7 26. 90 Pounds waste 7 Lumber 24 1 Maple collar 3 Telephone, November 3 1 Barrel gasoline 5 Pay roll 670 Dec. 3. Oil and can 1 Repairing 4 Hardware 10 17 1 Washer 1 Hardware 2 Gas, October 21 Gas, November 27 Telephone, December 3 Pay roll 145 1 Barrel Oil 49	N.T	10	Telephone, October	3.0
Hardware 2 Wood cylinders. 3 Gaskets. 4 1 Barrel gasoline 2 1 Barrel oil 19 1 Barrel lime 26 90 Pounds waste 7 Lumber 24 1 Maple collar 24 1 Maple collar 3 1 Barrel gasoline 5 Pay roll 670	NOV.	12.		$\frac{3.6}{1.5}$
2 Wood cylinders. Gaskets			Hardware	1.5
1 Barrel gasoline 2 1 Barrel oil 19 1 Barrel lime 7 26. 90 Pounds waste 7 Lumber 24 1 Maple collar 24 Telephone, November 3 1 Barrel gasoline 5 Pay roll 670 Dec. 3. Oil and can 1 Repairing 4 Hardware 10 17 1 Washer 1 Hardware 2 Gas, October 21 Gas, November 27 Telephone, December 3 Pay roll 145 1 Barrel Oil 9			2 Wood cylinders	.7
1 Barrel öil 19 1 Barrel lime 7 26. 90 Pounds waste 7 Lumber 24 1 Maple collar 3 Telephone, November 3 1 Barrel gasoline 5 Pay roll 670 Dec. 3. Oil and can 1 Repairing 4 Hardware 10 17 1 Washer 1 Hardware 21 Gas, October 21 Gas, November 27 Telephone, December 3 Pay roll 145 1 Barrel Oil 49				$\frac{4.9}{2.3}$
1 Barrel lime 26. 90 Pounds waste				19.9
25. 90 Pounds waste			1 Barrel lime	.7
1 Maple collar 3 Telephone, November 3 1 Barrel gasoline 5 Pay roll 670 Dec. 3. Oil and can 1 Repairing 4 Hardware 10 17 1 Washer 1 Hardware 21 Gas, October 21 Gas, November 27 Telephone, December 3 Pay roll 145 1 Barrel Oil 9		26.		$7.4 \\ 24.0$
Telephone, November 3 1 Barrel gasoline 5 Pay roll 670 Dee. 3. Oil and can 1 Repairing 4 Hardware 10 17. 1 Washer 1 Hardware 21 Gas, October 21 Gas, November 27 Telephone, December 3 Pay roll 145 1 Barrel Oil 49			1 Maple collar	.7
Pay roll 670 Dee. 3. Oil and can 1 Repairing 4 Hardware 10 17. 1 Washer 1 Hardware 21 Gas, October 21 Gas, November 27 Telephone, December 3 Pay roll 145 1 Barrel Oil 9			Telephone, November	3.0
Dec. 3. Oif and can. 1 Repairing. 4 Hardware. 10 17. 1 Washer. 1 Hardware. 21 Gas, October. 21 Gas, November. 27 Telephone, December 3 Pay roll 145 1 Barrel Oil 49			1 Barrel gasoline	5.6 670.9
Repairing. 4 Hardware. 10 17 1 Washer. 10 Hardware. 21 Gas, October. 21 Gas, November. 27 Telephone, December. 3 Pay roll. 145 1 Barrel Oil 49	Dec.	3.	Oil and can	1.5
17. 1 Washer. Hardware. Gas, October. 21 Gas, November. 27 Telephone, December. 3 Pay roll. 145 1 Barrel Oil. 9				4.3
Hardware. 21 Gas, October. 21 Gas, November. 27 Telephone, December. 3 Pay roll. 145 I Barrel Oil 9		17	1 Washer	10.1 .5
Gas, October 21 Gas, November 27 Telephone, December 3 Pay roll 145 I_Barrel Oil 9		44.	Hardware	.2
Pay roll			Gas. October	21.2
Pay roll			Telephone December	27.5 3.0
1 Barrel Oil			Pay roll	145.0
GldSS			I Barrel Oil	9.0
			Utass	2.8

Table No. 4.

		ving in Detail Expenditure on Account of Pump House N	o. 2 Expense.
1889 Jan.	2.	Payroll	\$14.00
Jan.	20	Payroll. Coal. Gas. December 1888.	45.43
	15.	Gas. December 1888	13.32
	29.	Gasoline	5.56 73.96
		Gas, January	20.34
		Coal. Gas, January Payroll. Telephone, January.	574.46
Feb.	11.	Salt	3.00 .25
2 00.		Salt. Sharpening ice tools. Telephone, February. Soldering tank.	$\frac{.25}{7.20}$
	26.	Telephone, February	$\frac{3.00}{1.00}$
	<i>2</i> 0.		48.90
		Repairing gauge Payroll. Gas, February Telephone, March	2.00
Mar.	12.	Cas Fabruary	587.17 45.18
mai.	1.0.	Telephone, March.	3.00
			.50
April	2.	5 nounds candles	15.16 .63
11 pil		Material. 5 pounds candles. Labor and material.	29.95
		Packing	10.50
		Coal	$71.91 \\ 13.22$
		1 barrel oil. Telephone, April. Payroll	3.00
	30.	Gas March	358.37 35.82
	90.	Gas, March. Hardware	1.38
		Oil 1 barrel oil	3.10
		Payroll	5.78 340.00
Мау	14.	Payroll. Labor and material.	4.75
		100 feet fuse	.85 1.10
		Sharpening tools. Material	33.30
June	28. 4.	Payroll Cement	$340.00 \\ 3.25$
June	25.	2.500 register charts	7.50
		Waste hose, etc. Telephone, May. Telephone, June.	67.30
		Telephone, June.	3.00 3.00
		Gas April	8.82
		" May	$\frac{3.78}{340.00}$
July	2.	" May Pay roll. Gas, June	5.76
-	16.	Telephone July	3.00
	30.	Lumber	38.31 368.64
Aug.	13.	Pay roll. Hardware.	3.61
	27.	132lb Waste	$\frac{11.22}{2.00}$
		Pay roll	340.00
Sept,	3.	Gas, July. "August Telephone, August.	6.80
		Telephone, August	4.68 3.00
	24.	Pay roll	361.64
Oct.	1. 29.	Coal	17.13
	20.	Gas, September Hardware.	$9.18 \\ 1.20$
		Renairing	7.00
		40 Sacks. Pay roll. Telephone, September.	$\frac{2.00}{340.00}$
			31.10
		Telephone, September	3.00 3.00
Nov.	12.	Polish	1.05
		Hardware	.69
	26.	Gas pipe and labor.	9.40 5.05
		II4b Waste. Gas pipe and labor Telephone, November. Pay roll.	3.00
Dec.	3.	Coal	323.08 40.59
200.		Coal Lumber Labor and material	6.00
	17.	Policy on hoiler 3 years	3.20 30.00
		Policy on boiler, 3 years	10.44
		" November. Telephone, December. 1 Barrel oil	14.40
		1 Barrel oil	3.00 12.48
		Pay roll	288.81

Table No. 5.

		ing in Detail Expenditures on Account of Pump House	No. 3 Expense.
1889		Doolring	04.40
Jany	29.	Packing. Coal.	\$4.42
Feb.	26.	Coal	238.54 112.30
Mon	10	Telephone, February	3.00
Mar. Apr.	12. 2.	Telephone, March	3.00
Lipi.		Pay roll	254.70
		Hardware	5.96
		Oil Blacksmitning	$\begin{array}{c} 2.20 \\ 6.12 \end{array}$
	30.	Coal Coal Telephone, February Telephone, March Telephone, April. Pay roll. Hardware Blacksmithing Oil Oil	34.83
		Coal	82.67
		Pay roll. Coal. Pay roll. Material.	438.40 129.30
		Pay roll	331.01
May	14. 28.	Material.:	11.03
June	4.	Pay roll. Coal. Oil.	113.75 755.65
		Oil	7.00
	25.	Material	.70 9.36
	20.	1 Barrel cylinder oil.	9.30 45.90
		Telephone, May	3.00
		Telephone, June	3.00 1.25
		Pay roll.	159.62
July	2.	Coal	487.99
	16.	Oil	184.05 3.00
		Linen and duck.	1.39
	30.	Pay roll	86.05
		Pay roll	224.11 5.88
		1 Thirty-five foot ladder.	7.00
Aug.	27.	Pay roll	239.63
Sept.	3.	Material Brooms, etc 1 Barrel cylinder oil Telephone, May Telephone, June 5 Gallons oil Pay roll Coal Oil Telephone, July Linen and duck Pay roll Pay roll Acid. 1 Thirty-five foot ladder Pay roll Sponges and brushes 5 Pounds beeswax Telephone, August 1 Barrel oil Duty sheets Hardware Packing Soap and lye Glue	$\frac{5.00}{2.00}$
		Telephone, August	3.00
	17.	1 Barrel oil	5.51
Oct.	1.	Hardware	$\frac{46.25}{12.00}$
000		Packing	3.15
	29.	Soap and lye	8.15
		Brushes and sponges.	.80 3.00
		Hardware	5.05
		Soap and Iye. Glue. Brushes and sponges. Hardware Coal. Flue cleaner and expansions.	676.06
		Pay roll. Telephone September. Telephone October. Hardware.	2.70 347.66
		Telephone September	3.00
Nov.	12.	Telephone October	3.00 21.79
1407.	1.0.	Material	9.20
		Ink	26.15
	26.	Gaskets, etc. Hardware	26.15 15.47
		Packing	1.90
		Packing Material Stationery Telephone November Pay roll	1.05 1.90 .
		Telephone November.	3.00
_		Pay roll	821.20
Dec.	3.	Lumber	11.58 3.60
		Lumber Box candles Seales	75.00
		Coal	1,063.13
		Chimneys, brooms, etc.	.75 1.15
		Clamps, etc	8.07
		Rake handles	2.25 1.60
		Lumber	4.48
		Clamps, etc. Rake handles. Waste basket, etc. Lumber Hardware Two quires paper, 40x48. One dozen cans pomade Hardware Telephone December.	10.33
	17.	Two quires paper, 40x48	1.30 3.60
		Hardware	1.33
		Telephone December	3.00
		One barrel oil	2.40 5.59
		Material Pay roll October.	45.88
		Pay roll October	420.38
			API 001

Total

Table No. 6.

Showing in Detail Expenditures on Account of Street Service Expense.

	Di	towing in Detail Expenditures on Account of Serect Servi	ce Empen
1889		De chian	@P' 00
Jany	. 2.	Packing	\$7.00 29.70
	15.	Coal Hardware	1.60
		Corn. Sole leather Labor and material. Gas, December, '88.	5.00
		Sole leather	8.17
		Cas December '88	$\frac{4.65}{7.02}$
			7.25
		Hardware	3.85
	29.	Hardware Rent of tool house, January 82 Loads sawdust.	125.00
		82 Loads sawdust	$\frac{41.00}{32.16}$
		Com	6 05
		Gas, January. Pay roll. Telephone, January Printing Blacksmithing	7.20
		Pay roll.	948.17
Echr	44	Telephone, January	$\frac{3.00}{7.00}$
Feby	. 11.	Rlacksmithing	8.05
		Hav.	30.32
		Hay Rent tool house, February	125.00
		Kent tool house, February Stationery. Telephone, February Map and fixtures. Coal. Pay roll. 161 Bushels oats.	5.28
	26.	Man and fixtures	$\frac{3.00}{19.25}$
	20.	Coal.	8.00
		Pay roll	$8.00 \\ 812.67$
Mar.	12.	161 Bushels oats	48.55
		9 Dittes Saturation of the Sat	2.50 .90
		3 Bits	4.32
		Telephone, March	3.00
		Gas, February Telephone, March Hardware	2.66
		Material Rent tool house, March 1 Load shavings. Lumber	.70
		1 Load shavings	125.00 .50
Apr.	2.	Lumber	33.40
		Pay roll	36.00
		1:091	30.88
		Stationory	5.00
		Blacksmithing Stationery. Telephone, April	$\frac{.65}{3.00}$
			866.79
	30.	Hardware Blacksmithing Gas, March	2.21
		Gas March	$\frac{14.25}{2.70}$
		Hardware	8.15
		46	2.55
		Rent toolhouse, April. 2 Horses.	5.84
		Rent toolhouse, April	125.00
		Pay roll	265.00 904.92
May	14.	Pay roll Borax	7.75
		Blacksmithing Emery cloth Weights Material	7.75 7.00
		Emery cloth	4.98
		Weights	$\frac{9.65}{30.38}$
	28.	Pay roll.	931.04
Jnne	4.	Pay roll. Feed and bran.	3.05 •
		Blacksmithing Rent toolhouse, May	8.50
		Glass	125.00
		Glass Cement	2.73 1.35
	25.	Labor and material	81.25
		Labor and material. Halter, &c. Labor and material.	$\begin{array}{c} 81.25 \\ 1.70 \\ 160.02 \end{array}$
		Labor and material	160.02
		Rent tool house. June	5.74 125.00
		Rent tool house, June. Telephone, May. "June. Gas, April. "More."	3.00
		June	3.00
		" Mar	1.80
		" May Pay roll. Rent Tool house, July Gas, June. Hay and oats.	$2.34 \\ 902.67$
July	2.	Rent Tool house, July	125.00
		Gas, June	.72 78.84
	16.	Hay and oats	
		Telephone July	$\frac{6.00}{3.00}$
		Lumber Telephone, July Labor and material Material	40.75
		Material	1.60
	30.	I fall axle grease	1.25
		Lumber	$13.50 \\ 148.71$
		Material	140.11

July	30.	1 Dozen Brooms	3 00
		Blacksmithing	14.75
		Material	16.85
		2.835 Hay Labor and material.	12.75 29.35
		Pay roll.	956.67
Aug.	13.	1,645 Hay	7.40
Ŭ		Material	17.37
		Rent tool house, August	125.00
		Hardware	39.26
		Cleaning vaults	6.00
		2,525 Hay	17,29 10.73
		Pay roll	968.42
Sept.	3.	Repairing harness	5.25
-		Gas, July	14.50
		Gas, August	1.26
		Hardware	.75 1.33
		Cement Telephone, Aug	6.00
		Blacksmithing	3.00
	17.	Hardware	14.55
	24.	258 Bushels oats.	62.08
		Pay roll	943.42
Oct.	1.	Hardware	1.10
		2,215 Hay	$9.41 \\ 34.65$
		Hay and oats. 5 Gallons gasoline.	.40
	29.	Brushes and sponges	33.20
		Gas, September	2.16
		Lumber	13.50
		Hardware	$\frac{1.00}{125.00}$
		Rent tool house, September. Rent tool house, October.	125.00
		Stationery	6.00
		3 Loads sawdust	1.00
		Pay roll	1,074.67
		Telephone, September	3.00
37	40	Telephone, October	3.00
Nov.	12.	Labor and material	81.25 34.30
		Split sleeves, etc. Hardward.	6,00
		2,160 Hay	9.72
		Material	1.75
		Rent tool house, November	1.25
	26.	17.840 hay	74.36
		1 Barrel oli	5.10 9.79
		Sole leather. Lumber	13.50
		Express on package from St. Paul.	.25
		Express on package from St. Paul. Valves, etc.	6.81
		Stationery	1.15
		Telephone, November.	3.00
Doc	9	Pay roll	966.92 14.50
Dec.	3.	Coal	125.00
	17.	Blacksmithing.	24.00
		Lumber	39.60
		Gas used in October	4.86
		Gas used in November	6.12
		Telephone, December	3.00 1.75
		°1 load dry mill wood. 4,785 pounds corn.	21.93
		Blacksmithing.	2.00
		Material	.37
		Total	

\$13,882.16

Table No. 7. Showing in Detail Expenditures on Account of Supervisors' Expense.

		Showing in Detail Expenditures on Account of Supervisors'	Expense
1889			Ø 00
Jany	. 15.	Stationery	\$.90
	00	Stationery. Stamp and pad. Pay roll. Telephone, January.	2.65 3.25
	29.	Par mall	276.36
		Tolonhone Ianuary	3.00
Feby	11		1.00
reby		Telephone, February Pay roll. Telephone, March	10.50
		Telephone, February	4.00
	26.	Pay roll	190.00
Mar.	12.	Telephone, March.	5.00
Apr.	2.	Telephone, March Pay roll. 1 Day book. Stationery. Telephone, April.	190.00
L-p-		1 Day book	2.25 9.05
		Stationery	9.05
		Telephone, April	4.00
	30.	Stationery	.25
		Pay roll.	325.00
May	14.	Stationery. Pay roll. Livery use Stationery. Pay roll Telephone, May. Telephone, June. Pay roll	3.00
		Stationery	.98 325.00
	28.	Pay roll	325.00
June	25.	Telephone, May	4.00
		Telephone, June	8.65
		Pay roll	325.00
July	2.	500 Two.cent envelopes	12.00
	16.	Telephone, July	8.62
	00	Stationery	.95
	30.	½ Dozen files	.13
A	-40	Pay roll	325.00 80.00
Aug.	13. 29.	Telephone, June. Pay roll. 500 Two.cent envelopes. Telephone, July Stationery. 4 Dozen files. Pay roll. Livery use, J. H. McConnell. Hardware.	
	49.	Pow moll	.60 325.00
Sept.	3.	Tolophone August	7.00
sept.	17.	Rlank books	10.00
	24.	Hardware Pay roll. Telephone, August. Blank books. Pay roll. Pencils and pens. 1 Dozen carbon paper. Pay roll	325.00
Oct.	1.	Peneils and nens	2.05
000.	29.	1 Dozen carbon paper.	.43
		Pay roll	325,00
		Telephone, September.	5.35
		Telephone, October	4.00
Nov.	12.	Pay roll Telephone, September Telephone, October. Ink	.30
	26.	1,000 Valves	10.00
		1,000 Bill heads	3.50
		Stationery	
			.70
		Telephone, November	4.00
Dog	117	Telephone, November. Pay roll.	$\frac{4.00}{325.00}$
Dec.	17.	Telephone, November. Pay roll Telephone, December. Pay roll	$\begin{array}{r} 4.00 \\ 325.00 \\ 4.00 \end{array}$
Dec	17.	Telephone, November. Pay roll. Telephone, December. Pay roll.	$\frac{4.00}{325.00}$
Dec.	17.	Telephone, October. Ink 1,000 Valves. 1,000 Bill heads. Stationery. Telephone, November. Pay roll. Telephone, December. Pay roll Table No. S.	$\begin{array}{r} 4.00 \\ 325.00 \\ 4.00 \end{array}$
Dec.	17.	Table No. 8.	4.00 325.00 4.00 255.00
		Telephone, November. Pay roll. Telephone, December. Pay roll Table No. 8. Showing in Detail Expenditure on Account of Office Expen	4.00 325.00 4.00 255.00
1889		Showing in Detail Expenditure on Account of Office Ex	4.00 325.00 4.00 255.00 pense.
	15.	Showing in Detail Expenditure on Account of Office Expenditure	4.00 325.00 4.00 255.00 ——————————————————————————————————
1889 Jan.	15. 29.	Showing in Detail Expenditure on Account of Office Expenditure	4.00 325.00 4.00 255.00 ——————————————————————————————————
1889	15.	Showing in Detail Expenditure on Account of Office Expenditure	4.00 325.00 4.00 255.00 pense. \$3.10 314.97 15.50
1889 Jan.	15. 29. 11.	Showing in Detail Expenditure on Account of Office Expenditure	4.00 325.00 4.00 255.00 pense. \$3.10 314.97 15.50
Jan. Feb.	15. 29. 11. 26.	Table No. 8. Showing in Detail Expenditure on Account of Office Expenditure on In the Expenditure on Account of Office Expenditure	4.00 325.00 4.00 255.00 255.00 0ense. \$3.10 314.97 15.50 .40 315.01 2.00
Jan. Feb.	15. 29. 11. 26. 12.	Table No. 8. Showing in Detail Expenditure on Account of Office Expenditure on In the Expenditure on Account of Office Expenditure	4.00 325.00 4.00 255.00 255.00 0ense. \$3.10 314.97 15.50 .40 315.01 2.00
Jan. Feb.	15. 29. 11. 26. 12.	Table No. 8. Showing in Detail Expenditure on Account of Office Expenditure on In the Expenditure on Account of Office Expenditure	4.00 325.00 4.00 255.00 255.00 pense. \$3.10 314.97 15.50 .40 315.01 2.00 315.02
Jan. Feb. Mar. April	15. 29. 11. 26. 12.	Table No. 8. Showing in Detail Expenditure on Account of Office Expenditure on In the Expenditure on Account of Office Expenditure	4.00 325.00 4.00 255.00 255.00 260 255.00 255.00 255.00 255.00 314.97 15.50 315.01 2.00 315.02 1.50 319.97
Jan. Feb.	15. 29. 11. 26. 12.	Table No. S. Showing in Detail Expenditure on Account of Office E	4.00 325.00 4.00 255.00 255.00 255.00 255.00 255.00 314.97 15.50 315.01 2.00 315.02 1.50 319.97 4.50
Jan. Feb. Mar. April	15. 29. 11. 26. 12. 2.	Table No. S. Showing in Detail Expenditure on Account of Office E	925.00 4.00 255.00 255.00 255.00 255.00 255.00 314.97 15.50 2.00 315.01 2.00 315.02 315.02 4.50 319.97 4.50
Jan. Feb. Mar. April	15. 29. 11. 26. 12. 2. 14. 28.	Table No. S. Showing in Detail Expenditure on Account of Office E	4.00 325.00 4.00 255.00 255.00 pense. \$3.10 314.97 15.50 40 315.01 2.00 315.02 1.50 319.97 4.50 75 320.03
Jan. Feb. Mar. April	15. 29. 11. 26. 12. 2. 14. 28. 4.	Table No. S. Showing in Detail Expenditure on Account of Office E	4.00 325.00 4.00 255.00 255.00 255.00 255.00 314.97 15.50 .40 315.01 2.00 315.02 1.50 319.97 4.50 .75 320.03 1.55
Jan. Feb. Mar. April	15. 29. 11. 26. 12. 2. 14. 28.	Table No. S. Showing in Detail Expenditure on Account of Office E	4.00 325.00 4.00 255.00 255.00 255.00 255.00 200 314.97 15.50 2.00 315.02 1.50 319.97 4.50 .75 320.03 1.55 9.00
Jan. Feb. Mar. April May June	15. 29. 11. 26. 12. 2. 14. 28. 4. 25.	Table No. S. Showing in Detail Expenditure on Account of Office E	4.00 325.00 4.00 235.00 235.00 255.00 255.00 314.97 15.50 40 315.01 2.00 315.02 1.50 319.97 4.50 .75 320.03 1.55 9.00 320.00
Jan. Feb. Mar. April	15. 29. 11. 26. 12. 2. 14. 28. 4.	Table No. S. Showing in Detail Expenditure on Account of Office E	4.00 325.00 4.00 2255.00 2255.00 2255.00 314.97 15.50 .40 315.01 2.00 315.02 1.50 319.97 4.50 319.97 4.50 320.00 320.00 320.00 10.00
Jan. Feb. Mar. April May June	15. 29. 11. 26. 12. 2. 14. 28. 4. 25.	Table No. S. Showing in Detail Expenditure on Account of Office E	4.00 325.00 4.00 255.00 255.00 255.00 255.00 200 314.97 15.50 .40 315.01 2.00 315.02 1.50 319.97 4.50 .75 320.03 1.55 9.00 320.00 10.00 .55
Jan. Feb. Mar. April May June	15. 29. 11. 26. 12. 2. 14. 28. 4. 25.	Table No. S. Showing in Detail Expenditure on Account of Office E	4.00 325.00 4.00 255.00 255.00 255.00 255.00 311.07 315.01 2.00 315.02 1.50 319.97 4.50 .75 320.03 1.55 9.00 320.00 10.00 .55 319.97
Jan. Feb. Mar. April May June	15. 29. 11. 26. 12. 2. 14. 28. 4. 25. 90.	Table No. S. Showing in Detail Expenditure on Account of Office E	4.00 325.00 4.00 255.00 255.00 0ense. \$3.10 314.97 15.50 .40 315.01 2.00 315.02 1.50 319.97 4.50 .75 320.03 1.55 9.00 320.00 10.00 .55 319.97 60
Jan. Feb. Mar. April May June	15. 29. 11. 26. 12. 2. 14. 28. 4. 25.	Stationery. Pay roll. Rental No. 9. Spindles. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Stationery Pay roll. Repairing type-writer. Pay roll. Lower constant of the pay roll. Ink pad Pay roll. Ink and mucilage 2,500 Statements. Pay roll. 2,500 Registers. 1 Record Book. Pay roll. 1 Gross pens. 1 Stamp	4.00 325.00 4.00 2255.00 4.00 2255.00 83.10 314.97 15.50 .40 315.01 2.00 315.02 1.50 319.97 4.50 .75 320.03 1.55 9.00 320.00 10.00 .55 319.97 .60 .25
Jan. Feb. Mar. April May June July Aug.	15. 29. 11. 26. 12. 2. 14. 25. 30. 13. 27. 3	Stationery. Pay roll. Rental No. 9. Spindles. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Stationery Pay roll. Repairing type-writer. Pay roll. Lower constant of the pay roll. Ink pad Pay roll. Ink and mucilage 2,500 Statements. Pay roll. 2,500 Registers. 1 Record Book. Pay roll. 1 Gross pens. 1 Stamp	4.00 325.00 4.00 255.00 4.00 255.00 314.97 15.50 .40 315.01 2.00 315.02 1.50 319.97 4.50 320.00 320.00 320.00 .55 319.97 .60 .25 320.01
Jan. Feb. Mar. April May June	15. 29. 11. 26. 12. 2. 14. 25. 30. 13. 27. 3	Stationery. Pay roll. Rental No. 9. Spindles. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Stationery Pay roll. Repairing type-writer. Pay roll. Lower constant of the pay roll. Ink pad Pay roll. Ink and mucilage 2,500 Statements. Pay roll. 2,500 Registers. 1 Record Book. Pay roll. 1 Gross pens. 1 Stamp	4.00 325.00 4.00 255.00 4.00 255.00 256.00 256.00 256.00 256.00 314.97 15.50 40 315.01 2.00 315.02 1.50 319.97 4.50 .75 320.03 1.55 320.00 10.00 555 319.97 .60 320.00 10.00 320.00 10.00 320.00 10.00 320.00 10.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00
Jan. Feb. Mar. April May June July Aug. Sept.	15. 29. 11. 26. 12. 2. 14. 25. 30. 13. 27. 3. 24.	Stationery. Pay roll. Rental No. 9. Spindles. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Stationery Pay roll. Repairing type-writer. Pay roll. Lower constant of the pay roll. Ink pad Pay roll. Ink and mucilage 2,500 Statements. Pay roll. 2,500 Registers. 1 Record Book. Pay roll. 1 Gross pens. 1 Stamp	4.00 325.00 4.00 2255.00 4.00 2255.00 4.00 2255.00 4.00 315.01 2.00 315.01 2.00 315.02 1.50 319.97 4.50 320.03 1.55 9.00 320.00 10.00 .55 319.97 60 .25 320.01 3.92 320.01
Jan. Feb. Mar. April May June July Aug. Sept. Oct.	15. 29. 11. 26. 12. 2. 14. 25. 30. 13. 27. 3. 24. 29.	Stationery. Pay roll. Rental No. 9. Spindles. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Stationery Pay roll. Repairing type-writer. Pay roll. Lower constant of the pay roll. Ink pad Pay roll. Ink and mucilage 2,500 Statements. Pay roll. 2,500 Registers. 1 Record Book. Pay roll. 1 Gross pens. 1 Stamp	4.00 325.00 4.00 255.00 4.00 255.00 4.00 255.00 00186. \$3.10 314.97 15.50 40 315.01 2.00 315.02 1.50 319.97 4.50 320.03 1.55 9.00 320.00 10.00 55 319.97 60 25 320.01 3.92 320.02 319.97
Jan. Feb. Mar. April May June July Aug. Sept.	15. 29. 11. 26. 12. 2. 14. 25. 30. 13. 27. 3. 24.	Stationery. Pay roll. Rental No. 9. Spindles. Pay roll. Retationery. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Ink pad Pay roll. Ink and mucilage 2,500 Statements. Pay roll. 2,500 Registers. 1 Record Book. Pay roll. 1 Gross pens. 1 Stamp. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Rubber bands, &c. Stamp. Rend pad decades.	4.00 325.00 4.00 2255.00 4.00 2255.00 4.00 2255.00 83.10 314.97 15.50 40 315.01 2.00 315.02 1.50 319.97 4.50 2.00 320.03 1.55 9.00 320.00 10.00 25 319.97 60 25 320.01 320.02 319.97 1.95
Jan. Feb. Mar. April May June July Aug. Sept. Oct.	15. 29. 11. 26. 12. 2. 14. 25. 30. 13. 27. 3. 24. 29.	Stationery. Pay roll. Rental No. 9. Spindles. Pay roll. Retationery. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Ink pad Pay roll. Ink and mucilage 2,500 Statements. Pay roll. 2,500 Registers. 1 Record Book. Pay roll. 1 Gross pens. 1 Stamp. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Rubber bands, &c. Stamp. Rend pad decades.	4.00 325.00 4.00 255.00 4.00 255.00 200 200 200 200 200 200 200 200 200
Jan. Feb. Mar. April May June July Aug. Sept. Oct.	15. 29. 11. 26. 12. 2. 14. 25. 30. 13. 27. 3. 24. 29.	Stationery. Pay roll. Rental No. 9. Spindles. Pay roll. Retationery. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Ink pad Pay roll. Ink and mucilage 2,500 Statements. Pay roll. 2,500 Registers. 1 Record Book. Pay roll. 1 Gross pens. 1 Stamp. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Rubber bands, &c. Stamp. Rend pad decades.	4.00 325.00 4.00 255.00 4.00 255.00 255.00 256.00 2
Jan. Feb. Mar. April May June July Aug. Sept. Oct. Nov.	15. 29. 11. 26. 12. 2. 14. 25. 90. 13. 27. 3. 24. 29. 12. 26.	Stationery. Pay roll. Rental No. 9. Spindles. Pay roll. Retationery. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Ink pad Pay roll. Ink and mucilage 2,500 Statements. Pay roll. 2,500 Registers. 1 Record Book. Pay roll. 1 Gross pens. 1 Stamp. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Pay roll. Pay roll. Pay roll. Pens, ink, etc. Pay roll. Rubber bands, &c. Stamp. Rend pad decades.	4.00 325.00 4.00 255.00 4.00 255.00 4.00 255.00 200.08 83.10 314.97 15.50 40 315.01 2.00 315.02 1.50 319.97 4.50 5.75 320.03 1.55 9.00 320.00 10.00 320.00 10.00 320.00 10.00 320.00 10.00 320.00 10.00 320.00 10.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00 320.00
Jan. Feb. Mar. April May June July Aug. Sept. Oct.	15. 29. 11. 26. 12. 2. 14. 4. 25. 30. 13. 27. 3. 24. 29. 12.	Stationery. Pay roll. Rental No. 9. Spindles. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Repairing type-writer. Pay roll. Stationery Pay roll. Repairing type-writer. Pay roll. Lower constant of the pay roll. Ink pad Pay roll. Ink and mucilage 2,500 Statements. Pay roll. 2,500 Registers. 1 Record Book. Pay roll. 1 Gross pens. 1 Stamp	4.00 325.00 4.00 255.00 4.00 255.00 255.00 256.00 2

\$3,727.47 -

Table No. 9.

Show	ving	in Detail Expenditures on Account of Collection and	Inspection .	Expense.
	89.			
Jan.	2. 29.	Envelopes	\$3.50 218.79	
Feb.	11.	Pay roll Postals and meter bill	15.75	
Mar.	26. 12.	Pay roll	140.00	
mar.	16.	6,600 water statements		
A		Stationery	.40	
April	2. 30.	Pay roll. Blotters and envelopes.	$140.00 \\ 17.90$	
	00.	Stationery	1.50	
May	28.	Pay roll.	$\frac{166.90}{210.00}$	
June	4.	Pay roll. Ink, etc	1.00	
	25.	2,590 statements.	6.75	
July	2.	Pay roll Street washers		
o ary	16.	3,000 envelopes		
Aug.	30. 27.	Pay roll.	210.00	
Sept.	3.	2,000 statements.		
•	17.	500 postals (printed).	7.25	
Oct.	24. 29.	Pay roll 7,000 water statements	210.00	
		Pay roll	210.00	
Nov.	12.	1,200 inspection blanks.	3.50	
		Stationery 7,000 envelopes		
	0.0	Petty cash book	6.50	
Dec.	26. 17.	Plank and postal cords	210.00 13.50	
Dec.		Pay roll.	210.00	
		Pay roll. Blank and postal cards. Pay roll. Money advanced for supplies	241.00	
		Total		\$2,761.84
		Table No. 10.		
	Sh	nowing in Detail Expenditures on Account of Civil Engi	neer Exper	ise.
_ 1889				
Jan.	2. 29.	Stationery	\$17.80 220.00	
Feb.	11.	Stationery	3.80	
A month	26.	Pay roll	$\frac{220.00}{220.00}$	
April	30.	Pay roll	9,25	
3.5		Pay roll	220.00	
May	14. 28.	400 reports	9.50 220.00	
June	25.	Pay roll Payroll	220.00	
July	16. 30.	Stationery	13.15 24.00	
	30.	4 sub books	220.00	
Aug.	27.	Stationery	1.46	
Sept.	17.	Pay roll	$220.00 \\ 4.20$	
•	24.	Pay roll	220.00	
Oct.	29.	100 water main lists. Pay roll	$\frac{11.50}{220.00}$	
Nov.	12.	Stationery	10.65	
	26.	Stationery	1.65	
Dec.	3.	Pay roll	$220.00 \\ 2.40$	
	17.	Dor well	220.00	
	11.	Pay roll	220100	

Table No. 11.

	Table No. II.	
•	Showing in Detail Expenditures on Account of Pipe-Hauling Exp	ense.
18		15
Jan. Feb.	29. Pay roll. \$94 26. Pay roll. 70	.15
Apr.	2. Pay roll 70	.00
	Pay roll	
	30. Pay roll. 70 Pay roll 205.	.00 .01
May	28. Pay roll	.00
June	Pay roll. 414 25. Hardware. 7	.04 .10
эшне	Pay roll 70	.00
July	2. Pay roll 376.	.05
	16. Hardware	.99 .00
	Pay roll. 251	
Aug.	27. Hardware	.39
Sept.	Pay roll. 70 3. Pay roll. 545	.00
Бере.	24. Pay roll. 70	.00
0 1	Pay roll	.67
Oct.	1. Surgical services (John McKinnon). 15 29. Pay roll. 33	.00
	29. Pay roll	
Nov.	26. Pay roll	.00
Dec.	Pay roll	.50 .00
Dec.		.70
		_
	Total	\$3,339.58
	Table No. 12.	
	Showing in Detail Expenditures on Account of Pump No. 1 Expenditures	ense.
1889.	1W Tohor and metanial	20.0
Sept.	17. Labor and material	\$0.25
	•	,
	Table No. 13.	
	Showing in Detail Expenditures on Account of Pump No. 2 Exp	ense.
_ 1889.		
Feb.	26. Material and work on water wheel	
April		.58 .65
	Total	\$9.31
	m	
	Table No. 14.	
	Showing in Detail Expenditures on Account of Pump No. 4 Exp	ense.
_ 1889.		
Jan.	29. 1 Flange	\$2.56
	Table No. 15.	
	Showing in Detail Expenditures on Account of Pump No. 5 Expenditures	ense.
1889.		00
Jan.		.60 .56
Sept.	17. Labor and material	.25
	Total	PE 41
	100a1	\$5.41
	Table No. 16.	
		0m 00
1889.	Showing in Detail Expenditures on Account of Pump No. 6 Exp	ense.
Jan.	15. Labor and material \$34	
Sept.		.25
	Total	\$37.35
		401.127
	Table No. 17.	
	Showing in Detail Ernenditures on Account of Pump No 7 France	en.se
1889.	Showing in Detail Expenditures on Account of Pump No. 7 Exp.	ense.
1889. Dec.		ense. \$32.85

		Table No. 18.		
	_	Showing in Detail Expenditures on Account of Diving A	pparatus.	
Jan.	9. 2.	Mittens	\$6.00	
Apri	1 30.	Labor and material	5.30	
May Oct.	29.	ti "	$\frac{1.00}{1.00}$	
Nov.	. 26.	(4	16.50	
Dec.	17.	46 46	1.25 1.75	
		Total		\$32.5
		Table No. 19.		
		Showing in Detail Expenditures on Account of Meter E	Expense.	
1889 Jan.	9. 15.	Hardware	\$.50	
	29.	Packing	2.50	
Feb.	11.	HardwarePacking.	.60 1.95	
Marc	h19	Packing. Blank book. Setting meter at Hotel Brunswick. Stationery.	.75 7.00	
		Stationery	1.80	
Apri	1 2.	Material. Hardware	8.31 .10	
May	14. 25.	Emery cloth	1.96 .85	
July	16.	Hardware 3 books	23.00	
Aug.	30. 27.	1 carton candles	$^{.81}_{-1.25}$	
Sept.	17.	Hardware Repairing "Duluth" meter 1 box sealing wax	. 17.84	
Oct.	$\frac{24}{29}$.	Hardware	.35	
Nov.	12.	HardwareMoney advanced for supplies	$\frac{1.30}{28.28}$	
			30.30	\$99.7
		Total		ф99.7
	CY	Table No. 20.	. # 77	
1889		howing in Detail Expenditures on Account of Steam Plan	u Expense.	
Jan. Feb.	15. 11.	Labor and material	\$3.50	
	26.			
April		Testing steam gauge	7.94 1.50	
		Testing steam gauge Blacksmithing	7.94 1.50 .86	
		Testing steam gauge Blacksmithing Total.	1.50	\$1 3.8
	2.	Total	1.50	\$1 3.8
	2. S	Total	1.50	\$1 3.8
Jan.	2. S	Total	1.50 .86 use No. 3.	\$13.8
18	2. S	Total	1.50 .86 use No. 3.	\$1 3.8
18	2. S	Total. Table No. 21. Showing in Detail Expenditures on Account of Pump Ho Coal Sewer pipe Second estimate steam heating apparatus First estimate electric light plant	1.50 .86 .86 .887.18 1.26 500.00 1,200.00	\$13.8
18	2. S	Total. Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe Second estimate steam heating apparatus First estimate electric light plant. Pay roll.	1.50 .86 use No. 3. \$87.18 1.26 500.00	\$13.8
18	89. 2.	Total. Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe Second estimate steam heating apparatus First estimate electric light plant. Pay roll.	1.50 .86 .86 .887.18 1.26 500.00 1,200.00 481.87 25.80 40.30	\$13.8
18	89. 2.	Total. Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe. Second estimate steam heating apparatus. First estimate electric light plant. Pay roll. Hardware Oil. Hardware Chack valves	1.50 .86 .86 .887.18 1.26 500.00 1,200.00 481.87 25.80 40.30 41.96 .65	\$13. 8
18	89. 2.	Total. Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe. Second estimate steam heating apparatus. First estimate electric light plant. Pay roll. Hardware Oil. Hardware Chack valves	1.50 .86 .86 .887.18 1.26 .500.00 1,200.00 481.87 25.80 40.30 41.96 .65	\$13.8
18	89. 2.	Total. Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal. Sewer pipe Second estimate steam heating apparatus First estimate electric light plant. Pay roll. Hardware Oil. Hardware Cheek valves. Livery use Sharpening tools. Pay roll.	1.50 .86 .86 No. 3. 887.18 1.26 500.00 1,200.00 1,200.00 481.87 25.80 40.30 41.96 .65 13.50 3.02 520.06	\$13. 8
18	89. 2.	Total. Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe. Second estimate steam heating apparatus. First estimate electric light plant. Pay roll. Hardware. Oil Hardware Check valves. Livery use Sharpening tools. Pay roll. Gol shelles	1.50 .86 .887.18 1.26 500.00 1,200.00 481.87 25.80 41.96 13.50 3.02 520.06 3.50 3.03 3.33	\$13. 8
18	89. 2.	Total. Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe. Second estimate steam heating apparatus. First estimate electric light plant. Pay roll. Hardware. Oil Hardware Check valves. Livery use Sharpening tools. Pay roll. Gol shelles	1.50 .86 .86 .87.18 1.26 500.00 1,200.00 481.87 25.80 40.30 41.96 .65 13.50 3.02 520.06 3.50 303.32 21.98	\$13. 8
18	89. 2.	Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal. Sewer pipe Second estimate steam heating apparatus First estimate electric light plant Pay roll. Hardware Oil. Hardware Check valves. Livery use Sharpening tools Pay roll. Gal. shellac. Lumber. Hardware Blacksmithing Pay roll.	1.50 .86 .86 .87.18 1.26 .500.00 1,200.00 1,200.00 481.87 25.80 40.30 41.96 .65 13.50 3.02 520.06 3.50 303.32 21.98 44.65 5353.75	\$13.8
18	89. 2.	Total. Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe Second estimate steam heating apparatus First estimate electric light plant. Pay roll. Hardware Oil. Hardware Check valves. Livery use Sharpening tools. Pay roll. Gal. shellac. Lumber Hardware Blacksmithing. Pay roll. Labor and material. Hardware	1.50 .86 .887.18 1.26 500.00 1,200.00 481.87 25.80 40.30 41.96 .65 13.50 3.02 520.06 3.50 3.32 21.98 44.65 353.75 2.25 35.56	\$13.8
Jan.	\$ 889. 2.	Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe Second estimate steam heating apparatus. First estimate electric light plant. Pay roll Hardware Oil Hardware Check valves Livery use Sharpening tools. Pay roll. Gal. shellac. Lumber. Hardware	1.50 .86 .86 .87.18 1.26 500.00 1,200.00 481.87 25.80 40.30 41.96 .65 13.50 3.02 520.06 3.50 303.32 21.98 44.65 353.75 2.25 35.56 26.43	\$13.8
Jan.	\$ 89. 2. 15.	Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe Second estimate steam heating apparatus. First estimate electric light plant. Pay roll Hardware Oil Hardware Check valves Livery use Sharpening tools. Pay roll. Gal. shellac. Lumber. Hardware	1.50 .86 .86 .87.18 .1.26 .500.00 1,200.00 1,200.00 481.87 25.80 40.30 41.96 .65 13.50 3.02 520.06 3.50 303.32 21.98 44.65 25.85 353.75 2.25 35.75 2.25 35.75 2.25 35.75 2.64 300.00	\$13.8
Jan.	\$ 889. 2.	Total. Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe Second estimate steam heating apparatus First estimate electric light plant. Pay roll. Hardware Oil. Hardware Check valves. Livery use Sharpening tools. Pay roll. Gal. shellac. Lumber. Hardware Blacksmithing. Pay roll. Labor and material Hardware Hardware Hardware Hardware Hardware Final estimate electric light plant. Pay roll. Sever pine and coment	1.50 .86 .86 .87.18 1.26 500.00 1,200.00 1,200.00 481.87 25.80 41.96 .65 13.50 3.02 520.06 3.50 303.32 21.98 44.65 353.75 2.25 35.56 26.43 300.00 415.60 66.84 50.00	\$13.8
Jan.	\$ 89. 2. 15.	Total. Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe Second estimate steam heating apparatus First estimate electric light plant. Pay roll. Hardware Oil. Hardware Check valves. Livery use Sharpening tools. Pay roll. Gal. shellac. Lumber. Hardware Blacksmithing. Pay roll. Labor and material Hardware Hardware Hardware Hardware Hardware Final estimate electric light plant. Pay roll. Sever pine and coment	1.50 .86 .86 .87.18 1.26 500.00 1,200.00 481.87 25.80 40.30 41.96 .65 3.02 520.06 3.50 303.32 21.98 44.65 35.75 2.25 35.56 36.43 300.00 415.60 66.84 50.00 65.30	*13.8
Jan. Feb.	2. S. S. S. 2. 15. 29.	Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe Second estimate steam heating apparatus First estimate electric light plant. Pay roll. Hardware Oil. Hardware Check valves. Livery use Sharpening tools. Pay roll. Gal. shellac. Lumber. Hardware Blacksmithing. Pay roll. Labor and material. Hardware Hardware Hardware Hardware Final estimate electric light plant. Pay roll. Sewer pipe and cement 62½ perch rock. Coal. 20 lbs. waste. Pay roll.	1.50 .86 .86 .87.18 .1.26 .500.00 1,200.00 481.87 .25.80 40.30 41.96 .65 .3.50 3.02 520.06 3.50 303.32 21.98 44.65 353.75 2.25 35.56 36.43 300.00 415.60 66.84 50.00 66.84 50.00 66.30 2.00 240.15	*13.8
Jan.	\$ 89. 2. 15.	Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe Second estimate steam heating apparatus First estimate electric light plant. Pay roll. Hardware Oil. Hardware Check valves. Livery use Sharpening tools. Pay roll. Gal. shellac. Lumber. Hardware Blacksmithing. Pay roll. Labor and material Hardware Hardware Final estimate electric light plant. Pay roll. Sewer pipe and cement 62½ perch rock. Coal. 20 lbs. waste Pay roll. Hardware Pay roll. Hardware	1.50 .86 .86 .87.18 .1.26 .500.00 1,200.00 1,200.00 481.87 .25.80 41.96 .65 13.50 3.02 520.06 3.50 303.32 21.98 44.65 353.75 2.25 35.56 26.43 300.00 66.84 50.00 66.84 50.00 66.30 2.00 240.15 .80	\$13.8
Jan. Feb.	2. S. S. S. 2. 15. 29.	Table No. 21. Showing in Detail Expenditures on Accoount of Pump Ho Coal Sewer pipe Second estimate steam heating apparatus First estimate electric light plant. Pay roll. Hardware Oil. Hardware Check valves. Livery use Sharpening tools. Pay roll. Gal. shellac. Lumber. Hardware Blacksmithing. Pay roll. Labor and material. Hardware Hardware Hardware Hardware Final estimate electric light plant. Pay roll. Sewer pipe and cement 62½ perch rock. Coal. 20 lbs. waste. Pay roll.	1.50 .86 .887.18 1.26 500.00 1,200.00 481.87 25.80 41.96 .3.50 3.02 520.06 3.50 3.32 21.98 44.65 353.75 2.25 35.56 26.43 300.00 415.60 66.84 50.00 65.30 2.00 240.15	\$13.8

April	30.	Cement	50.50
		Final estimate steam plant	225.00
		Estimate on pumps	16,000.00
		45 bbls, cement	60.75
		2 turn tables	50.00
		Estimate sugan plant. Estimate on pumps. 45 bbls. cement 2 turn tables Livery use.	11.50
		Material Cement, fire brick, etc 32,000 Extra material for roof trusses.	8.46
		29 000	163.19 323.00
		Extra material for roof trusses	47.60
May	14.	Lumber	4.62
may	TX.	Iron nigtes	$\frac{4.62}{136.56}$
		Blacksmithing	166.20
		Blacksmithing 15 Barrels Cement.	20.25
		Metorial	7.38
		Lumber	6.11
		4 Fire tubes	1.20
		Material Lumber 4 Fire tubes Emery cloth Material	.10
		Material	8.45
		Cement. Material	38.70
		Material	53.66 257.83
	28.	Pay roll. Pay roll.	191.64
June	4.	Hardware	65
June	4.	iiaiuwaio	.65 37.59
		Boiler iron	18.00
	25.	Labor and material	1.50
		Iron pipe, &c	5.57
		Material	19.62
		Hardware Boiler iron. Labor and material Iron pipe, &c Material 3,400 Brick. Deers	34.00
		Doors	17.75
July	2.	Steel and labor	5.60
		Placksmithing	736.63 16.43
		5.400 Brick Doors. Steel and labor. Laying floors. Blacksmithing Brass rail around electric plant. Pay roll. Hardware. Labor and material. Hardware.	80.00
		Pay roll.	182.30
	16.	Hardware	182.30 92.72
		Labor and material	185.15
		Hardware	27.47
	30.	" Samon nosts	23.27 213.20
	30.	Material	92.16
		7 Screen posts. Material Pay roll. Estimate on pumps. Furnishing hardwood ceiling.	108.26 57.50 236.88
		Estimate on pumps	57.50
	-10	Furnishing hardwood ceiling	236.88
Aug.	13.	Hardware 7 ft. 8 in. Walnut Material 24 Iron plates.	231.41
		Material	1.40
		24 Iron plates	.68 3.60
	27.		3.85
		Lumber Furnishing inside wood work	14.65
~ .		Furnishing inside wood work	51.00
Sept.	3.	Gate nouse, stone steps, etc	500.00
	17.	Labor and mutarial	3.00
	24.	Flue cleaner, etc.	4.39 3.41
	WX.	Oak flooring	63.12
		Pay roll. Labor and material. Flue cleaner, etc. Oak flooring. 1 Gallon preservative.	2.50
		Hardware	6.59
		Hardware Pipes, valves and elbows.	32.86
	-	Hardware Hardware	.72
Oct.	1.	Compan blooks	5.99
		Corner blocks. Painting walls in office and halls.	.70 95.00
	29.	Mouldings	7 50
	1000	50 Electric lamps	32.50
		Ceiling and flooring	36.57
		Mouldings 50 Electric lamps Ceiling and flooring Hardware	8.13
		Hardware	1.16
Nov.	10	Material. Desk and 6 chairs.	$\frac{2.37}{45.00}$
1101.	1.60	Material	91 64
		Material Coal chute and material.	1,321.96
Dec.	3. 17.	Pay roll	137.00
	17.	Pay roll. Lumber.	34.07
		2 Lamps. Labor and material.	4.00
		Hardware	62.14
		Hardware	9.49
		2 Perch rock	1.60
		Hardware Hardware Look feet 2x12 plank Randware Hardware Look feet 2x12 plank Randware Hardware	12.50
		6 Barrels cement 1 Office table.	10.15 7.50
		1 Office table.	7.50
		Lumber	2.30

		Table No. 22. Showing in Detail Expenditures on Account of Street	Maine	
1889		*	mains.	
Jan.	2.	Lowering pipe in Groveland av	\$221.11 190.75	
Aug.	13.	Gates and covers	352.94	
Sept.	24.	Valves 25 Hydrant Covers	44.40 81.25	
Oct.	29.	Reducers and sleeves	22.82	
Dec.	3. 17.	Gate covers, etc Labor and material.	633.68 58.45	
		Total		\$1,605.40
				Φ1,000.40
		Table No. 23. Showing in Detail Expenditures on Account of Meter A	4	
1889		Showing in Delan Expenditures on Account of Meter A	iccouni.	
Jan.	25.	29 Meters	605.00	
Oct.	29.	46 Meters	$1,024.00 \\ 525.00$	
Dec.	17.	14 Meters	$\frac{308.00}{268.50}$	
1,000	1	3 Meter	264.00	
		Three 3-inch meters and twelve counters.	291.75	
		Total		\$3,286.25
		Table No 24		
	S	Thowing in Detail Expenditures on Account of Stand Pipe	Ernense	Q
188		Totaling the Double Laponicular to the 11000 with by Station 1 tp	Lupense	
Jan.	29.	Hardware	\$83.11	
Feb.	11.	Hardware Labor and material	$\frac{12.55}{40.80}$	
Mar.	12. 2.	Repairing hydrants	4.80 218.05	
April	30.	Repairing standpipes	1.00	
		Hardware	$\frac{.40}{3.18}$	
May	14.	Lag screws	1.87	
June	4.	Material Seven gate cones	$136.57 \\ 14.80$	
	25.	Material Labor and material	$192.26 \\ 4.80$	
		Labor and material	96.20	
Aug. Sept.	13. 17.	StandpipesFittings	$172.84 \\ 9.13$	
		Total		\$992.36
				φοοωίου
		Table No. 25.		
		ing in Detail Expenditures on Account of Erroneous Mai	n Assess n	nents.
Jan. 188	39. 2.	J. B. Gilfillan	\$128.70	
		J. S. Pillsbury	$128.70 \\ 55.12$	
		J. A. Camp. J. S. Gillette.	31.20	
		H. F. Brown L. F. Menage	$110.24 \\ 110.24$	
		E. S. Jones J. E. Bell	65.39	
		Gilfillan & Martin.	59.35 28.60	
		W. A. Nimocks Wm. Loehran	$163.35 \\ 64.35$	
		J. B. Gilfillan	64.35	
		E. K. Smith F. C. Griswald	$80.60 \\ 142.35$	
		Security bank	85.80	
		P. Herzog G. A. Pillsbury	77.63 13.50	
		J. W. Stone, agent	55.69 123.19	
	15.	Chute Bros. A. F. Kelley.	31.20	
		F. A. Dunnsmoor, agent. W. W. Parker. L. B. Elwood.	93.60 93.60	
		L. B. Elwood.	34.32	
		Nellie B. Mead. Gale, Rust & Co.	$35.88 \\ 102.05$	
		D. Morrison	117.00	
	29.	M. O. Hunter. Corser & Co.	68.64 22.28	
		W. A. Nimocks	33.75	

Jan.	29.	Geo. W. Ringrose	85.31
		E. S. Corser. Cassiday & Findlay G. W. McClelland.	$\frac{31.20}{31.20}$
		G. W. McClelland	31.20
			81.25
77. 2	4.4	D. M. Gilmore. K. W. Wing, agent. M. Roeller	60.00 39.83
Feb.	11.	M. W. Wing, agent	42.22
		Mrs. G. W. Hale	31.20
		Geo. Huhn	31.20 31.20
		L. B. Elwood H. C. Henry	31.20
		Stevens and Newman	15.60
		O. P. Vangness	41.96
	26.	Christ Engle. C. A. Nimocks, agent.	61.10 119.60
Mar.	12.	Chas. Bohannan	523.25
AVE COLL +	TELE P	O. Westling	18.75
		John Grabow	21.45
Amuil	2.	C. A. Nimoeks E. H. Moulton	26.65 $1,545.98$
April	30.	Bridget Stewart.	42.90
		Geo, A. Brackett.	37.13
		E. G. E. Dodge.	16.63 88.09
		A. W. French Mathias Kreck.	26.00
		Frank Jabst	28.60
		Harland S. Orton	76.05
		C. A. Nimocks, agent J. P. Allaise	602.33 55.12
		Kalph Hedemask	19.50
		E. J. Rees	17.87
Morr	14	C. A. Nimocks	461.03 26.00
May	14.	A. E. Allen John Haulson	16.90
		B. F. Nelson	48.10
		G. A. Castle	102.05
		C. A. Nimocks John P. Sherrin	155.93 26.00
		O. Hedaman.	16.90
		J. C. Beck	32.50
June	4.	O. A. Sutton	47.33 55.90
		K. Kartgaard. C. A. Nimocks.	48.68
		Frank Ganyer. John B. Conlee	26.00
		John B. Conlee Frank Clukey.	32.50 26.00
		Nels Anderson	63.70
		Jas. E. Preat.	26.00
		M. Ingemoen. P. A. Turretzen.	29.27 13.00
		Jas. Bell	26.00
	~~	Mendoe McKenzie	55.90
	25.	C. A. Nimocks	416.61 13.00
		Mary Kane. C. W. Case.	28.60
		C. F. Anderson.	26.00
		W. A. Barnes. John Martin.	$28.22 \\ 379.64$
		Jacob Clementsen	13.00
		Jacob Clementsen. Andrew Johnson	27.30
		Albert Knoby	37.70 32.50
		Deere & Co. B. W. Rand.	21.45
		F. W. Cook.	26.00
July	2,	Louisa F. Robinson	37.70
July	21	A. P. Morton Corser & Co	35.75 31.20
		P. R. Laev	58.04
		E. C. Mower L. R. Thein. R. D. Russell. John A. Anderson.	31.20
		R D Russell	35.75 30.88
		John A. Anderson	31.20
	10	Jacob Danner	41.37
	16.	C. A. Nimocks	2,990.87 37.70
		John Hauslick.	26.00
		E. H. Moulton	34,339.77
		F. I. Douglass	16.25
		C. A. Nimocks	26.00 167.75
Aug.	13.	Louisa M. Leonard	6.50
		W. E. Vrooman	42.90
		C. H. Wheeler.	5.85 82.68
		Albert Nary John Hauslick E. H. Moulton Paul Maussa E. L. Douglass C. A. Nimocks Louisa M. Leonard Mrs. Wm. Danes. W. E. Vrooman C. H. Wheeler C. A. Nimocks	773.00
	-	-14	

\$50,822.80

Sept. 24.	K W. Wing	33.99
	Wm. Styp. A. F. Nelson.	49.95
	A. F. Nelson	87.75
Oct. 1.	C. A. Nimoeks.	1,227.64
Nov. [12.	R. C. Haywood. C. Nimocks.	77.13 692.36
21011 (201	John Kelly	32.50
	Geo. C. Stillman Paul Foxtin J. C. Tehn	15.95
	Paul Foxtin	26.00
	Louis Salhero	26.00 58.56
	J. A. Fagan.	83.56
	C. A. Nimoeks	97 30
70 0	Louis Salberg J. A. Fagan. C. A. Nimoeks. Chas. T. Thompson C. A. Nimoeks. E. H. Moulton. C. A. Nimoeks. C. A. Nimoeks. 518 Descriptions.	76.62
Dec. 3.	F. H. Moulton	123.50 654.26
17.	C. A. Nimocks	32.50
	C. A. Nimoeks.	111.38
	518 Descriptions	15,54
	Total	
	Table No. 26.	
	Charries in Detail Francistures on Assount of Consual	Ummanaa
	Showing in Detail Expenditures on Account of General	Expense.
Jan. 2.	Envelopes	\$7.00
Jan. 2.	Envelopes. Freight on wood. Telephone, January 1,000 Statements. Telephone, February. March April. Stationery Material	11.12
	Telephone, January	6.00
Feb. 11.	1,000 Statements	3.50
M 10	Telephone, February	6.00
Mar. 12. April 2.	March	6.00
30.	Stationery	.88
May 14.		5.14
June 4.	Lumber	12.50
25.	Telephone, May	6.00 6.00
July 16.	" July	6.00
vary 10.	July Stampboxes, &c. (Samples). Printing annual report of 1888. Hardware Oil and Gasoline. Telephone, September. "October"	6.31
Sept. 17.	Printing annual report of 1888.	217.00
Oct. 1.	Hardware	1.65
29.	Telephone Sentember	$\frac{4.67}{6.00}$
	" October " October " November " November " November " Telephone, December " Ottober " Telephone, December " Canada sawdust." Labor and material Money advanced for supplies Lumber " October " Canada sawdust." Lumber " Canada sawdust." " Cana	6.00
Nov. 26.	" November	6.00
Dec. 3.	Work done, looking for leak	4.55
17.	Telephone, December	$\frac{6.00}{50.25}$
	Labor and material	.75
	Money advanced for supplies.	28.13
	Lumber	71.00
	and the second s	9400 45
	Total	\$490.45
	Table No. 27.	
	Showing in Detail Expenditures on Account of Reb	ates.
1889.	*	
Jan. 2.	C. L. Woehler. A. J. Condit.	\$2.50
	A. J. Condit	5.45
	A. G. Smith. W. W. Woodward.	12.30 60.00
	M. McAlpin.	12.50
Feb. 26.	W. W. Woodward. M. McAlpin. F. L. Mortimer.	10.00
2001 1001		18.15
	Smith & Parker. R. P. Dunnington. John A. Grimstead.	7.00 8.75
A	Tohn A Grimstead	3.00
April 2.		7.25
	I M Robinson	20.00
30.	Mrs. H. A. Chase	4.00 3.00
	M. A. James. John McNally	3.00
May 14.	Stephen McBride	20.75
may 14.	Stephen McBride. C. E. Reynolds.	1.00
	Tohn Miller	2.75
	Mrs. M. E. Howe H. Bidwell	3.40 4.00
Turno 95	Thos. King	3.50
June 25.	Pitt Mathews	3.00
	M. B. Koon.	8.00
	Brown & McIntyre	12.50
	M. H. Crittenden.	1.50 4.00
	John Watson	40.40
	Paul Schmedeman	5.00

Aug. 13.	Episcopal Resn. Ass'n	9.90	
	H. H. Wadsworth	6.00	
	R. H. Newlon. Jos. Menard	3.00 4.00	
Oct. 29.	H. T. Shephard	4.00	
,	Chas. M. Green Enos Campbell.	$\frac{4.00}{7.30}$	
	E. T. Sykes	9.75	
	A. B. Barton	11.30	
	B. Cooper John Fowler	40.00 5,75	
	Josiah Thompson	20.44	
	Mathias Kees	$10.00 \\ 24.35$	
	F. M. Parcher L. Jepson	3.00	
Dec. 3.	W. N. Allen Mrs. Nellie Fletcher.	9.00	
	W. W. Huntington.	19.80 43.30	
	R. D. Russell.	5.50	
			\$527.29
	Total		\$521.2S
	Table No. 28.		
S	Showing in Detail Expenditures on Account of Pump Ho	use No. 1	
1889. Mar. 12.	Hunter, Scott & Co., plumbing and material		\$304.71
mar. 12.			ФЭОФ. (Д
	Table No. 29.		
4000	Showing the Amount Transferred to the Improvement	Fund.	
1889. Mar. 12.	Transferred to permanent improvement fund	\$50,000.00	
Dec. 17.	Transferred to permanent improvement fund	50,000.00	
	Total		9100 000 00
	Total		\$100,000.00
	Table No. 30.		
	Showing in Detail Expenditures on Account of Tapping	Material	
1889.	Dividently in December 2 approximate on 11000 and of 1 appring	1/100001 00001	
May 14.	164 corporation cocks	\$143.75	
June 25. July 2.	150 corporation cocks	66.00 70.55	
July 2. 30.	83 corporation cocks 95 corporation cocks	83,90	
Aug. 13.	37 corporation cocks	31.45	
Sept. 27.	Cartage	.25 117.44	
24.	97 corporation cocks. 151 corporation cocks.	82,45	
Dec. 3.	151 corporation cocks	112.11	
	Total		\$707.90
	Table No. 31.		
	ving in Detail Expenditures on Account of Water Main	Advancem	ents.
1889. June 25.	P. D. McMillan.	\$600.00	
June 25.	L. F. Menage.	1,037.30	
July 2.	Michael Lyons.	52.00	
30.	Geo. L. Brimhall	1,045.00 800.00	
	F. Von Schlegell. W. D. Washburn.	544.00	
	Total		\$4,078.30
			Φ±,010.00
	Table No. 32.	77	
1889.	Showing in Detail Expenditures on Account of Plumber's	F'xpense	
April 2.	750 Time sheets	\$1.50	
	Material	101.33	
30.	Pay roll. 5 Gallons gasoline.	71.70	
1900.	Paint	.55	
	Hardware	2.10	
	Hardware	15.18 136.00	
May 14.	Borax	1.00	
28.	Material,	.30	
June 4.	Pay rollHardware	1.48 .20	
5 till 0 11	Material	8.31	

June	25.	Labor and material	4.50	
June	WU.	Labor and material Oil	.60	
			2.50	
~ .	0	Pay roll	137.50	
July	2.	Pay roll. 5 Gallons gasoline Stove pipe.	.50	
	16.	Material	.67 1.18	
	30.	Material Labor and material. Material	5.85	
		Material	16.97	
A	40	Pay roll	143.00	
Aug.	13. 27.	Material Hardware Material	12.49 .15	
	~••	Material	1.88	
		Material	4.60	
~ ,	0	Material Pay roll Cement	148.50	
Sept.	3. 24.	Dino oto	$\frac{.50}{10.27}$	
	Wr.	Lead. etc.	13.37	
		Lead. etc. Pay roll. Material.	143.00	
Oct.	1.	Material	$\frac{.63}{7.22}$	
	29.	Material Pay roll. Oil Material.	$7.22 \\ 159.50$	
Nov.	12.	Oil	1.00	
1101.	T.V.	Material	1.84	
	26.	Material Pay roll 1 Ball cock	3.35	
D	-6 10V	Pay roll	143.00	
Dec.	17.	Material.	$\frac{1.00}{3.22}$	
		TEGEOTIGE,	0.44	
		Total		\$1,455.51
		Table No. 33.	•	
	a	Lawing in Datail Emmanditumes on Assessment of Dischausith	2 - To	
400		howing in Detail Expenditures on Account of Blacksmith	s Expens	e.
1889		2 Sash	\$1.60	
Apr.	~	Coal 750 time sheets. Labor and material. Pay roll. Paint. Hardware	7.25	
		750 time sheets	7.25 1.50	
		Labor and material	17.80	
	30.	Pay roll	$70.25 \\ 1.15$	
	60.	Hardware	52.90	
		Labor and material. Pay roll. Hardware	5.06	
		Labor and material	1.80	
31	44	Pay roll	117.00	
May	14.	Coal	$\frac{17.00}{7.49}$	
	28.	Coal	121.50	
June	e 25.	Oil	1.50	
		Pay roll. Oil Hardware. Pay roll. Coal 1 gal. lard oil	5.28	
July		Pay roll	112.50 11.04	
July	16.	1 gal. lard oil	.90	
	201	Hardware Pay roll Hardware	18.00	
	30.	Pay roll	121.50	
Aug	. 13. 27.	Coal	18.28 7.00	
	21.	Pay roll	121.50	
Sept	. 17.	Pay roll Hardware	21.68	
	24.	Pay roll	112.50	
Oct.	1. 29.	Hardware Pay roll Coal Hardware Coal Pay roll	7.00	
	29.	Coal	5.18 7.00	
		Pay roll	121.50	
Nov	. 12.	Hardware	24.49	
-	26.	Hardware Pay roll Hardware	117.00	
Dec.	. 17.	nardware	.35	
		Total	\$1,256.50	
		Table No. 34.		
			<i>m</i>	
		Showing in Detail Expenditures on Account of Oil	Test.	
188	39.			
Apr	il 30.	Hardware.	\$0.67	
		Cement	63.85 52.50	
		44 bbls, crude oil	55.70	
May	7 14.	44 bbls. crude oil Briek	11.48	
2.2.00		Material Estimate of B. F. Knerr.	10.43	
T	28.	Estimate of B. F. KnerrGlass.	$150.00 \\ 2.10$	
Jun	e 4.	Boiler iron.	39.90	
		FD - 4 - 1		0000 00

Table No. 35.

Showing in	Detail	Expenditures on	Account of	Extension	No.	472,	in	Third	St.	N.
		from Sixth	Ave. N. to	Plumouth 2	4ve.					

1889. une 25.	4 16-in. flexible joints	\$192.
ec. 3.	2.778 ft. 16-in. pipe	4,692
	66 ft. 6-in. pipe	29.
	14 ft. 8-in. pipe	9
	10 ft. 16-in. pipe	16
	7 hydrants 3 6-in. gates.	255 39
	2 8-in. gates	38 38
	4 16-in. gates	260
	8.274 lbs. lead.	
	18,510 lbs. specials	
	Pay roll	1,125
	Supplies	106

Table No. 36.

Showing in Detail Expenditures on Account of Extension No. 419, in Colfax Ave. S. from W. Twenty-fourth St. to W. Twenty-seventh St.

1000.	4 044 64 6 5 5 5	0000
ec. 3.	1,961 ft. 6-in. pipe	\$893.9
	4 hydrants	146.0
	2 6-in. gates	26.6
	1,468 lbs. lead	54.
	1,149 lbs. specials	22.
	Pay roll	354.
	Supplies	62.5

Table No. 37.

Showing in Detail Expenditures on Account of Extension No. 489 on Washington Ave. N. Across Bassett's Creek.

1889.			
Jan.	2.	Sawdust	\$6.65
		9 loads of sawdust	2.25
Dec.	3.	483 ft. 8-in.pipe	
		632 lbs, lead	
		1.196 lbs, specials.	
		Pay roll.	
		Supplies.	
		supplies	12.40

Table No. 38.

Showing in Detail Expenditures on Account of Extension No. 421, in Eighth st. S. from Twenty-firstst Ave. S. to Twenty-second Ave. S.

1889.			
Dec.	3.	375 ft. 6-in. pipe	
		4 ft. 8-in. pipe	,
		1 hydrant)
		1 6-ln. gate	
		376 lbs. lead	
		600 lbs. specials	١.
		Pay roll. 126.00	
		Supplies	

Total \$390.27

Table No. 39.

Showing in Detail Expenditures on Account of Extension No. 422, in Eighth St. S. from Fifth Ave. S. to Sixth Ave. S.

1889.			
Dec.	2.	375 ft. 12-in. pipe	\$422.28
		12-in. gate	36.00
		741 lbs. lead	27.42
		756 lbs. specials	15.12
		Pay roll	169.72
		Supplies	13,69

Table No. 40.		
Showing in Detail Expenditures on Account of Extension No. from Seventh Ave. S. to Eleventh Ave. S.	423, in E	ighth St.
1889. Dec. 2. 1,630 ft. 12-in. pipe 28 ft. 6-in. pipe 4 hydrants 2 Gates 3,208 lbs. lead 4.692 lbs. specials Pay roll. Supplies	\$1,923.42 12.62 146.00 72.00 118.70 93.84 748.92 54.52	
Total		\$3,170.02
Showing in Detail Expenditures on Account of Extension No. 427. from Sixth Ave. S. to Eleventh Ave. S.	in Four	th St. S.
Dec. 3. 2,026 ft. 12-in. pipe. 56 ft. 6-in. pipe 9 ft. 12-in pipe 5 hydrants. 3 12-in. gates. 2 6-in. gates. 4,390 lbs. lead. 7,031 lbs. specials Pay roll. Supplies.	\$2,389.62 25.88 8.49 182.50 108.00 26.60 163.43 140.62 791.92 69.54	
Total		\$3,906.60
Showing in Detail Expenditures on Account of Extension No. 428, St. from First Ave. S. to Stevens Ave.	in E. Fo	ourteenth
1886. Dec. 3. 310 ft. 8-in. pipe. , , 10 ft. 6-in. pipe	\$203.98 4.56 36.50 19.00 16.28 15.18 149.01 11.49	
Total		\$456.00
Showing in Detail Expenditures on Account of Extension No. 4 Ave. S. from E. Eighteenth St. to E. Franklin Au 1889.	30, in Fe	ourteenth
Dec. 3. 916 ft. 6-in. pipe 14 ft. 6-in. pipe. 2 hydrants 1 6-ft. gate. 748 lbs. lead. 746 lbs. specials. Pay roll. Supplies.	\$417.45 6.52 73.00 13.30 27.68 14.92 220.69 6.55	
Total		\$780.11
Showing in Detail Expenditures on Account of Extension No. 433 from Twelfth St. to Fourteenth St.	, in First	Ave. S.
1889. Dec. 3. 1.002 ft. 24-in. pipe. 110 ft. 6-in. pipe. 66 ft. 8-in. pipe. 3 ft. 12-in. pipe. 3 hydrants. 3 6-ft. gates. 1 8-ft. gates. 2 24-ft. gates. 6.507 lbs. lead. 20,606 lbs. specials. Pay roll. Supplies.	\$3,306.92 50.18 43.50 4.48 109.50 39.90 416.00 240.76 592.12 593.77 43.44	\$ 5,459.57

Table No. 45.

Showing in	Detail 1	E xpenditur	es on A	lccount	of	Extension	No.	435	in	Fourteenth
3		ve. S. $E. fr$								

Dec. 3.	2,886 ft. 12-inch pipe	\$3,403,99
	57 ft. 6-inch pipe	26.34
	16 ft. 12-inch pipe	19.22
	7 hydrants	255.50
	6 6-inch gates	79.80
	4 12-inch gates	144.00
	18-inch gate	
	6.234 lbs. lead	
	13,123 lbs. specials	
	Pay roll. Supplies.	
	supplies	101.09

Table No. 46.

Showing in Detail Expenditures on Account of Extension No. 439 in Hawthorne Ave. from Tenth St. N. to Twelfth St. N.

Dec.		776 ft. 16-inch pipe	\$1.311.07
200.	0,	9 ft. 6-inch pipe	3.97
		8 ft. 24-inch pipe.	
		1 24-inch gate	
		2 6-inch gates	
		1 16-inch gate	
		2,426 lbs. lead	89.76
		4,827 lbs. specials	96.54
		Pay roll.	422.62
		Supplies	24.54
1		Cuppitosiii ii	W.10.1

Table No. 47.

Showing in Detail Exquaditures on Account of Extension No. 440, in Hawthorne Ave. from Ninth St. to Tenth St.

Dec.	2	324 ft. six-in. pipe	\$546.76
Dec.	o.	54 10. SIA-III. PIPC.	
		5 ft. 6-inch pipe	
		1 hydrant	36.50
		1 16-in. gate	65.00
		934 lbs. lead	34.56
		2,395 lbs. specials	47,90
		Pay roll	148.98
		Supplies	

Table No. 48.

Showing in Detail Expenditures on Account of Extension No. 441, in Jefferson St. N. E., from Summer St. to near Thirteenth Ave. N. E.

1889.			
Dec.	3.	1,110 ft. 8-in. pipe	\$729.63
		10 ft. 6-in. pipe	4.60
		2 hydrants	73.00
		1 8-in. gate	
		1,340 lbs. lead	49.58
		1,000 lbs. 10du	49.00
		1,176 lbs. specials	23.52
		Pay roll	
		Supplies	34.41
		Pay roll. Supplies	374.30 34.41

Total...... \$1,308.04

Table No. 49.

Showing in Detail Expenditures on Account of Extension No. 442 in James Ave. N., from Western Ave. to Fifth Ave. N.

1889.		211, 7.0110 11 0000110 22001 00 2 07 010 22001 211	
Dec.	3.	604 ft. 6-in. pipe	\$275.52
		10 ft. 6-in. pipe	4.69
		2 hydrants	73.00
		1 6-in. gate	13.30
		532 lbs. lead	19.68
		610 lbs. specials	12.20
		Pay roll,	214.05
		Supplies	21.94

Table No. 50.

	Table No. 50,		
Showing	in Detail Expenditures on Account of Extension No. 44. N. from Twenty-Sixth Ave. N. to Twenty-Ninth Av	$rac{4}{2}$ in Lynd ve. N.	ale Ave.
Dec. 3.	3,716 ft. 16-in. pipe. 37 ft. 6-in. pipe 37 ft. 6-in. pipe 35 ft. 8-in. pipe 8 hydrants. 5 ft. 16-in gates. 2 ft. 8-in. gates. 10.001 lbs. lead. 11.975 lbs. specials. Pay roll. Supplies.	\$6,276.49 16.91 23.39 292.00 325.00 38.00 370.04 239.50 1,723.64 122.48	
	Totals		\$9,427.45
Showing	in Detail Expenditures on Account of Extension No. 44 from Erie Ave. to W. Twenty-fourth street.	5 in Lynd	ale Ave.
1889. Dec. 3.	4,675 ft. 24-in. pipe. 58 " 6 " " 110 " 8 " " 112 " 12 " " 8 hydrants. 1 6-inch gate. 1 12 " " 5 24 " " 23,199 lbs. lead. 34,830 lbs. specials. Pay roll. Supplies.	\$15,427.23 26.75 72.62 132.32 292.00 13.30 36.00 1,248.00 858.36 696.60 2,008.02	
	Total		\$20,850.90
1889.	in Detail Expenditures on Account of Extension No. 446 from Hawthorne Ave. to Laurel Ave.	3, in Lynö	lale Ave.
Dec. 3.	363 ft. 24-in. pipe 8 " 6 " " 1 24-inch gate. 1,982 lbs. lead 2,198 " specials. Pay roll. Supplies.	1,199.10 369.00 208.00 73.33 43.96 361.73 12.75	
	Total	\$1,902.56	
· ·	in Detail Expenditures on Account of Extension No. Ave. S. from Seventh St. S. to Eighth St. S.	452, in N	ineteenth
1889. Dec. 3.	477 ft. 6-in. pipe. 1 hydrant 368 lbs. lead. 288 lbs. specials Pay roll. Supplies	\$217.41 36.50 13.62 5.76 134.50 14.82	
	Total		\$422.61
Showing	in Detail Expenditures on Account of Extension No. 45. from Second Ave. N. to Hawthorne Ave.	5, in Nint	h St. N.
1889. Dec. 3.	from Second Ave. N. to Hawthorne Ave. 757 ft. 16-in. pipe. 23 ft. 6-in. pipe. 2 hydrants. 1 16-in. gate. 2 6-in. gates. 2,325 lbs. lead. 4,877 lbs. specials. Pay roll. Supplies. Total.	\$1,279,32 10,35 73,00 65,00 26,60 86,03 97,54 331,83 27,27	\$1,996.9 4

Table No. 55.

Showing in Detail	Expenditures on	Account of	Extension	No. 456	, in	Oak	Lake
V	Ave. from Sixth .	Ave. N. to I	Eighth Ave.	N.			

1889.				
Dec.	3.	728 ft. 6-in. pipe	\$331.90	
		1 hydrant	36.50	
		1 6-in. gate	13.30	
		400 lbs. lead		
		944 lbs. specials		
		Pay rolf		
		Supplies	21.69	
		Total		\$650.70

Table No. 56.

Showing in Detail Expenditures on Account of Extension No. 457 in Plymouth Ave, from Sixth Ave. N. to Lyndale Ave.

1889.	, ,	
	326 ft. 8-in. pipe	\$214.36
	10 ft. 6-in pipe	4.60
	6 ft. 10-in. pipe	
	10 ft. 16-in. pipe	
	2 hydrants	
	1 8-in. gate.	
	1 10-in. gate	
	731 lbs. lead.	
	2,174 lbs. specials.	
	Pay roll.	169.58
	Fay Foll.	
	Supplies	19.98
	Total	

Table No. 57.

Showing in Detail Expenditures on Account of Extension No. 458, in Pleasant Ave. from W. Twenty-fourth St. to W. Twenty-sixth St.

1889.			
Dec.	3.	1,299 ft. 8-in. pipe	\$853.83
		14 ft. 6-in. pipe	6.43
		2 hydrants	73.00
		18-in. gate	19.00
		1,436 lbs. lead	53.13
		873 lbs. specials	
		Pay roll	413.30
		Supplies	

Table No. 58.

Showing in Detail Expenditures on Account of Extension No. 462, in Second Ave. S. from E. Twenty-fifth St. to E. Twenty-sixth St.

1889.			
Dec.	3.	464 ft. 6-in. pipe	\$302.87
		3 6-in. gates	39.90
		500 lbs. lead.	20.72
		735 lbs. specials	14.70
		Pay roll.	197.13
		Supplies	18.64

Table No 59.

Showining in Detail Expenditures on Account of Extension No. 464 in Sheridan Ave, from Kenwood Boulevard to W. Twenty-first St.

1889.			
Dec.	3.	1,544 ft. 6-in. pipe	\$703.73
		2 ft. 10-in. pipe	2.18
		3 hydrants	109.50
		1 6-in. gate	13.30
		1,264 lbs. lead	46.77
		1,292 lbs. special	25.84
		Pay roll	509.70
		Supplies	48.20

Table No. 60.	
Showing in Detail Expenditures on Account of Extension No. 466	in Second Ave.
N. from Washington Ave. N. to N. Ninth St.	
1889. Dec. 3. 2.170 ft. 16-in. pipe. 59 ft. 6-in. pipe. 6 hydrants. 3 6-in. gates. 3 16-in. gates. 6,042 lbs. lead. 9,067 lbs. specials. Pay roll. Supplies.	\$3,666.00 27.07 219.00 39.90 195.00 223.55 181.34 909.12 81.11
Total	\$5,542.09
Table No. 61.	
Showing in Detail Expenditures on Account of Extension No. 467 second St. from Kenwood Boulevard to Sheridan Av	in W. Twenty-
1889. Dec. 3. 607 ft. 6-in. pipe. 5 ft. 10-in. pipe. 1 hydrant. 1 6-in. gate. 600 lbs. lead. 930 lbs. specials. Pay roll. Supplies.	\$276.84 4.37 36.50 13.30 22.20 18.60 202.50 18.90
Total	\$593.21
Table No. 62.	
Showing in Detail Expenditures on Account of Extension No. 471 Ave. N. from Washington Ave. N. to Lyndale Av 1889.	in Twenty-sixth
Dec. 31. 1,588 ft. 12-in. pipe	\$1,873.30 8.80 146.00 195.00 114.26 81.10 467.23 54.17 \$2,939.86
Table No. 63.	
Showing in Detail Expenditures on Account of Extension No. 473, i from Hawthorne Ave. to First Ave. S.	n Twelfth St. N.
1889. Dec. 3. 2,302 ft. 24-in. pipe 52 ft. 6-in. pipe. 7 ft. 8-in. pipe 7 hydrants. 4 6-in. gates 1 8-in. gate 3 24-in. gates 12,278 lbs. lead 32,074 lbs. specials Pay roll Supplies	\$7,594.17 23.83 4.93 255.50 53.20 19.00 624.00 454.29 641.48 1,399.17 91.27
Total	\$11,160.84
Table No. 64.	in W Thurster
Showing in Detail Expenditures on Account of Extension No. 474 fourth St. from Fremont Ave. to Irving Ave. 1889.	i, in W. Twenty-
Dec. 3. 1,056 ft. 6-in. pipe. 15 ft. 6-in. pipe. 3 hydrants. 1 6-in. gate. 832 lbs. lead. 722 lbs. specials. Pay roll. Supplies.	\$481.35 7.02 109.50 13.30 50.78 14.44 258.80 36.22 \$951.41

\$516.68

Table No. 65.

Showing in Detail Exper	nditures on	Account	of E	Extension	No.	476,	in	W.	Twenty-
fourth	St. from .	Pleasant 2	Ave.	to Grand	Ave				

1889. Dec.	3.	369 ft. 6-in. pipe	\$168.09	
		1 hydrant		
		1 6-in. gate	13.30	
		392 lbs. lead	14.50	
		861 lbs. specials	17.22	
		Pay roll		
		Supplies	11.84	
		Total		\$399.38

Table No. 66.

Showing in Detail	Expenditures on	Account of	Extension No. 477	, in Fourth Ave.
S. ,	from E . Thirty-se	econd St. to 1	E. Thirty-third St.	

1889.		in the same series of the same s	~~	
	3.	601 ft. 6-in. pipe	\$273.87	
		2 hydrants	73.00	
		Pay roll. Supplies	$\frac{160.67}{21.59}$	
		supplies	~1.00	
		Total		\$529.13

Table No. 67.

Showing in Detail Expenditures on Account of Extension No. 481 in Plymouth Ave. from Second St. to Fourth St.

ec. 3	1,109 ft. 16-in. pipe	\$1,873.88
00: 0.	3 " 8 " "	2.4
	4 " 10 " "	4.18
	40 " 6 " "	68.41
	0 66 @ 66 66	
	0 0	4.06
	4 16-inch gates	260.00
	3.821 lbs. lead.	141.38
	10.459 " specials	209.18
	Pay roll.	782.60
	ay 1011	
	Supplies	69.68

Table No. 68.

Showing in Detail Expenditures on Account of Extension 482 in Aldrich Ave. from W. Twenty-seventh St. to W. Twenty-eighth St.

1889.		
ec. 3.	612 ft. 6 in. pipe	\$279.12
	1 hydrant	36,50
	1 hydrant	13.30
	488 lbs. lead	18.06
	511 lbs. specials	
	Pay roll	
	Supplies	19.03
	Total	

Table No. 69.

Showing in Detail Expenditures on Account of Extension 483 in Twenty-Fifth Ave. S. from Franklin Ave. to E. Twenty-Second St.

1889.			
Dec.	3.	719 ft. 6-in. pipe	\$327.79
		1 hydrant	36.50
		16-in. gate	13.30
		544 lbs. lead	20.13
		314 lbs. specials	6.28
		Pay roll	185.12
		Supplies	21.67

Table No. 70.

Showing in Detail	Expenditures on	Account of 1	Extension No.	. 484 in Twelft	h Ave. N.
v	from Girard A	Ave. N. to Ex	nerson Ave.	N.	

ec. 3.	764 ft. 6-in. pipe	\$348.
	2hvdrants.	79
	16-in. gate	13.
	664 lbs. lead	24.
	911 lbs. specials	
	Pay roll	288.
	Supplies	20.
	Total	9701
	1061	DIST.

Table No. 71.

Showing in Detail Expenditures on Account of Extension No. 485 in Clinton Ave., from E. Twenty-seventh St., to E. Twenty-eighth St.

1889.				
	3.	696 ft. 6-in. pipe		 \$317.09
		1 hydrant		 36.50
		16-in. gate		 13.30
			* * * * * * * * * * * * * * * * * * * *	
				186.36
				21.03

Table No. 72.

Showing in Detail Expenditures on Account of Extension No. 486 in E. Twenty-second St., from Twenty-fifth Ave. S. to Twenty-seventh Ave. S.

1889.			
Dec.	3.	908 ft. 6-in. pipe	\$414.07
		3 hydrants	109.50
		2 6-in, gates	
		744 lbs. lead	
		794 lbs. specials	
		Pay roll.	201.19
		Supplies	32.64

Total. \$827.41

Table No. 73.

Showing in Detail Expenditures on Account of Extension No. 487 in Thirteenth St. S. from First Ave. S. to Third Ave. S.

ee	3.	620 ft. 12-in. pipe	\$731.32
		620 Tt. 12-1m. pipe. 16 " 6 " " " " " " " " " " " " " " " " "	7.61
		2 " 24 " "	9.57
		1 6-in. gate	13.30
		3 12-in, gates	108.00
		1,602 lbs. lead	59.27
		6,126 lbs. specials	122.52
		Pay roll	301.59
		Supplies	18.50

Table No. 74.

Showing in Detail Expenditures on Account of Extension No. 425 in E. Eighteenth St., from Clinton Ave. to Fourth Ave. S.

1889.		7,5	
	3.	451 ft. 6 in. pipe	\$208.21
		1 hydrant	36.50
		496 1bs. lead	18.35
		880 lbs. specials	17.60
		2 6-in. gates	26.60
		Pay roll	466.31
		Supplies	18.28

\$791.85

\$1,073.61

Table No. 75.

Table No. 75.		
Showing in Detail Expenditures on Account of Extension No. 443 from Second Ave. N. to Thirteenth Ave. N.	in Knoo	c Ave.,
1889. Dec. 3. 209 ft. 6-in. pipe	\$136.23 36.50 9.47 4.58 165.27 10.39	\$362.44
Table No. 76.		
Showing in Detail Expenditures on Account of Extension No. 460 from Fourth Ave. N. E. to Fifth Ave. N. E.	in Rolli	ins St.,
1889. Dec. 3. 172 ft. 6-in. pipe 2 hydrants. 208 lbs. lead. 549 lbs. specials. Pay roll. Supplies.	\$78.39 73.00 7.70 10.98 102.37 9.65	
Total		\$282.09
Table No. 77.		
Showing in Detail Expenditures on Account of Extension No. 48 Ave. S. E., from Third St. to Fourth St. 1889.	92 in Th	irteenth
Dec, 3. 411 ft. 6-in. pipe. 1 6-in. gate. 352 lbs. lead. 526 lbs. specials Pay roll. Supplies.	\$183,37 13,30 13,02 10,52 168,39 11,06	
Total		\$399.66
Table No. 78.		
Showing in Detail Expenditures on Account of Extension No. 495 E., from Fourteenth Ave. to Sixteenth Ave.	in Fifth	St. S.
Dec. 3. 816 ft. 12-in. pipe. 13 ft. 6-in. pipe. 8 ft. 12-in. pipe. 2 hydrants. 1 6-in. gate. 2 12-in. gates. 1,852 lbs. lead. 4,258 lbs. specials. Pay roli. Supplies	\$963.30 6.24 10.26 73.00 13.30 72.00 68.52 85.16 376.41 28.72	
Total		\$1,696.91
Table No. 79.		
Showing in Detail Expenditures on Account of Extension No. 496 S. E., from Fourth St. to Fifth St.	in Sixteen	th Ave.
1889. Dec. 3. 386 ft. 12-in. pipe	\$455.94 36.00 28.12 22.08 521.19 10.28	

Table No. 80.

Showing in Detail	Expenditures on	Account of Extension	No. &	522 in E.	Fourteenth
	St., from Fire	st Ave. S. to Third A	ve S.		

ec.	3.	952 ft. 24-in. pipe	\$3,139.96
		95 ft. 6-in. pipe	43.34
		8 ft. 24-in. pipe	
		3 hydrants	109.50
		5 6-in. gates	
		2 24-in. gates	416.0
		5,614 lbs. lead.	207.7
		17,811 lbs. specials.	356.2
		Pay roll	300.2
		Supplies	42.0

Table No. 81.

Showing in Detail Expenditures on Account of Extension No. 530 in Hiawatha Ave., from E. Twenty-fourth St. to E. Twenty-seventh St.

1889. Dec.	3.	2,133 ft. 8-in. pipe	\$1,401.64
		28 ft. 6-in. pipe	
		4 hydrants	
		3 8-in. gates	57.00 90.28
		1,753 lbs. specials.	
		Pay roll.	617.47
		Supplies	

Total......\$2,426.66

Table No. 82.

Showing in Detail Expenditures on Account of Extension No. 557 in E. Twentyfourth St., from Cedar Ave. to Hiawatha Ave.

1889.	y and the second	
	417 ft. 8-in. pipe	\$274.43
	7 ft. 6-in. pipe.	3.19
	1 hydrant	36.50
	18-in. gate	19.00
	520 lbs. lead.	19.24
	319 lbs. specials	6.38
	Pay roll	124.37
	Supplies	14.21

Total......\$497.32

Table No. 83.

Showing the Total Number of Water Meters, Size and Kind in City January 1, 1890.

Kind.	5% in.	% in.	1 in.	1½ in.	2 in.	3 in.	Total.
Worthington		45	46	24	17	23	194
Hersey	64	30	23	12	. 4		133
Crown		2	2				8
Royal	. 3	2	• •	*.*			5
Union Rotary		1	5				6
m			100 13		~		0.40
Total		80	76	36	21	23	346
	Hydran	lie Eleve	tor Reg	ictore 26			

Table No. 84.

Showing the Total Number of Miles of Pipe in Each Ward Approximately.

	Miles.
First ward	7.849
Second ward	12,566
Third ward	19,535
Fourth ward.	21,778
Fifth ward	
Seventh ward	7.434
Eighth ward.	21.583
Ninth ward.	8.190
Tenth ward	2.785
Eleventh ward.	
Thirteenth ward.	
Infitteenin ward	.001

Table No. 85.

Showing in 1	Detail the	Cost of City	Property in	Water D	epartment.	January 1	1, 1890.
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Street mains, hydrants	and valve	S			1,669,089.86	
Pump house No. 1, steam	n plant int	take, wl	neel pits		191,434.57	
Pump house No. 2					88,737.86	
Pump house No. 3, pum Real estate, boilers, etc	ps, electric	e plant,	intake	<u> </u>	208,965.75	
Real estate, boilers, etc				,		
Distribution pipes, Wes	t Side pum	ip house			9,487.02	
Tunnel, West Side					22,000.00	
Tunnol Foot Side					13,318.00	
Pump No. 1, West Side r	oump hous	e. No. 1.			13,000.00	
Pump No. 2, "	~ 66	64			6,000.00	
Pump No. 1, West Side p Pump No. 2, "Pump No. 3, "	64	66			7,000.00	
Pump No. 4. "	6.6	6.6			7,000.90	
Pump No. 5. "	66	6.6			10,000.00	
	64				12,724.51	
Pump No. 7, East side p					12,504.00	
Material on hand, pipe,	lead, hydi	cants, et	.c		18,016.00	

ANNUAL REPORT

OF THE

SUPERVISOR OF WATER WORKS.

MINNEAPOLIS, Minn., Dec. 31, 1889.

To the Honorable Committee on Water Works of the City of Minneapolis:

GENTLEMEN—In compliance with that portion of the prescribed duties of my office, I herewith submit my annual report of this department for official and public information for the year ending December 31, 1889.

The entire works are in good condition and have given good satisfaction

during the year.

We have about completed and started our new North Side station. It has so far given good satisfaction and is about ready for official test, less a few minor adjustments.

I would recommend that the grounds at the station owned by the city be levelled and beautified; also another road be made to get to station, as we

have no roadway there now that is public.

We have laid mains the past year of six-inch, 14,793.7; eight-inch, 6,111.1; twelve-inch, 10,435.9; sixteen-inch, 11,785.5; twenty-four-inch, 12,418 feet, making a total of 10 miles 2,754 feet, and 115 fire hydrants set, and have replaced twenty-four flush and low hydrants with five-foot post hydrants.

The total amount of pipe in the city laid is 148 miles, 1,011 feet and 1,795 fire hydrants set; also 240 sprinkling hydrants, which makes our system as

complete as any city of our size in the country.

The accompanying detailed tables give your honorable body a correct idea of all work done and property owned by this department. In conclusion I would sincerely thank the honorable committee for the kind and courteous treatment received at their hands; also thanking my fellow officers and men, in kindly assisting me to make the department run so smooth and well.

Respectfully submitted,

J. H. McCONNELL, Supervisor.

Table No. 1.

Showing in Detail Record of Pumps Nos. 1, 2, 3, 4, 5 and 6, from January 1, 1889, to January 1, 1890.

TABLE SHOWING RECORD OF PUMP NO. 1 (West Side).

Months.	TIME IN OPERATION.		Press're.	Total gallons	TIME IN OPERAT'N.		Press're.	Increase during
	Hrs.	Min.	Pre	pumped.	Hrs.	Min.	Pre	fire.
January February March April	587 452 247 132	35 15 25	75 75 75 75 75	30,620,382 32,605,274 18,216,900 8,486,114	10 22 5 4	35 45 30	78	78,650 7,120
May June July August September October November December	21 194 179 145 135 225	15 25 10 20 30	75 75 75 75 75 75 75	1,088,742 9,903,842 14,868,906 7,699,770 7,775,560 13,296,114	9 1 7 4	25 12 85 12 22 30	80 80 80 80 80 80 80	5,070 15,600 3,120
Total	2,310	55	75	144,561,604	175	6	79.1	109,560

TABLE SHOWING RECORD OF PUMP NO. 2 (West Side.)

Months.	TIME IN OPERATION.		Press're.	Total gallons pumped.		E IN AT'N.	Press're.	Increase
	Hrs.	Min.	Pre	pumpea.	Hrs.	Min.	Pre	fire.
January February March	587 452 274 132	35 15 25	75 75 75 75 75	47,008,280 50,161,960 28,026,000 13,055,560	10 22 5 4	35 45 30	75 78 78 75	121,000
May. June July August September October.	21 194 179 145 135	15 25 10 20	75 76 75 75 75	1,982,680 15,236,680 22,875,240 11,844,800 11,962,400	9 1 7	25 12 85 12 22	80 80 80 80 80	7,800
November	225	30	75	20,455,560	68	30	78.6	168,400

TABLE SHOWING RECORD OF PUMP NO. 3 (West Side.)

Months.	TIME IN OPERATION.		Press're.	Total gallons pumped.	TIME IN OPERATI'N.		Press're.	Increase during
	Hrs.	Min.	Pre	pumpeu:	Hrs.	Min.	Pre	fire.
January February March. April May June July August September October November	237 162 17 620 569 675 687 732 689 689 303	40 25 30 50 5 40 50 45 00 10 30	75 75 75 75 75 75 75 75 75 75 75	14,156,400 15,592,000 1,784,800 29,183,400 27,656,480 36,218,640 37,496,660 55,887,100 21,846,060 13,206,080	11 5 20 11 21 26 10 22 28	15 50 10 10 15 5 12 15 00 20 40	75 76 65 75 80 80 80 80 80 80	92,800 9,600 84,000 53,200 11,200 31,600 50,600
December	5,431	25	75	285,478,440	155	12	77.4	9,600

Table No. 1-Continued.

TABLE SHOWING RECORD OF PUMP NO. 4 (West Side).

Months.	TIME OPERA Hrs.		Press're.	Total gallons pumped.	TIME OPER		Press're.	Increase during fire.
January. February. March April. May. June. July August. September October. November	460 479 714 441 569 675 687 732 699 152	28 20 35 20 05 40 50 45 	75 75 75 75 75 75 75 75 75 75 75 75	26,898,220 30,947,400 46,175,000 18,968,160 27,656,480 32,450,820 36,218,640 37,496,660 55,887,100 13,999,760	11 13 12 8 11 21 26 10 22 12	15 40 15 50 15 12 15 15	75 76 78 75 80 80 80 80 80 80	2,400 156,800 11,200 9,600 84,000 53,200 11,200 31,600 28,400
December	5,612	18	75	327,696,240	149	2	78.4	378,400

TABLE SHOWING RECORD OF PUMP NO. 5 (West Side).

MONTHS.	TIME		Press're.	Total gallons	OPER	E IN RAT'N.	Press're.	Increase
	Hrs.	Min.	Pre	pumped.	Hrs.	Min.	Pre	fire.
January	584		75	85,670,415	12			49,450
February	504	45	75	69,401,788	19	40	76	60,080
March	182	15	75	31,399,425	3	35	77	16,900
April	663	30	75	134,505,785	23	15	85	581,110
May	399	10	75	76,423,116	6	45	80	44,165
June	394	35	75	82,084,149	18	5	80	91,250
July	483	20	75	105,256,235	23	47	80	529,120
August	477	40	75	99,594,795	4	45	80	32,120
September	394	18	75	102,209,490	10	50	80	60,500
October	542	30	75	68,618,073	23	5	80	33,980
November	359	-00	75	35,287,064	4	35	80	4.740
December			75					
Total	4,985	3	75	769,459,335	149	42	79.8	1,550,500

TABLE SHOWING RECORD OF PUMP NO. 6.—(West Side.)

Months.	TIME		ss're.	Total Gallons		E IN	Press're.	Increase during
	Hrs.	Min.	Press'	Pumped.	Hrs.	Min.	Pre	fire.
January February March April May June July August September October November December	62 51 571 157 516 631 641 659 572 613 386	5 30 15 55 25 20 15 45 10 40	75 75 75 75 75 75 75 75 75 75 75 75	7,456,640 10,570,432 113,430,060 28,422,000 78,788,400 105,976,000 102,828,322 110,276,400 128,536,600 95,284,530 50,546,884	111 5 10 17 25 10 18 10 6	15 10 20 50 30 50 12 40 	80 80 80 80 80 80 80 80 80 80	1,600 32,800 47,600 161,000 647,600 28,600 140,000 323,870 65,280
Total	4,863	20	75	832,116,266	116	2	80	1,448,350

Table No. 2.

Showing Record of Pump No. 7 (East Side Pumping Station) from January 1, 1889, to January 1, 1890.

Months.	TIME		Press're.	Total gallons	TIM		Press're.	Increase
	Hrs.	Min.	Pre	pumped.	Hrs.	Min.	Pre	fire.
January	731		80	150,134.800	11	35	81	
February	644	15	78	129,525,320	23	35	81	
March	710	50	84	134,180,400	12	35	84	
April	691	5	86	113,874,600	22	20	86	214,400
May	718	30	85	133,851,600				
June	706	35	85	159,253,000	13	25	85	64,400
July	715	10	86	196,438,200	26	35	82	
August	731	10	87	202,720,060	9	5	89	
September	698	55	88	182,609,400	21	25	86	205,600
October	671	20	88	176,366,320	29	40	90	
November	464	45	90	113,001,720	7	35	90	
December	628	10	80	63,924,220	30		80	
Total	8,111	45	85	1,755,879,640	207	50	85	484,400

Table No. 21/2.

Showing Record of Pump Nos. 8 and 9 (North Minneapolis Station) from November 1, 1889, to January 1, 1890.

Months.	TIME OPERA			
	Hrs.	Min.	pumped.	sumed—lbs.
November December	284 744	5	111,214,600 271,564,900	372,613 900,577
Total	1,028	5	382,779,500	1,273.190
Total number of gallons pumped at West Side pum 1, 1889, to January 1, 1890 Total number gallons pumped at East Side pumpi 1889 to January 1, 1890 Total number gallons pumped at North Side pumpi 1, 1889, to January 1, 1890. Daily average in gallons, West Side. Daily average in gallons, East Side. Daily average in gallons, North side. Daily average in city. Cost of pumping 1,000,000 gallons, West Side. Cost of pumping 1,000,000 gallons, East Side. Cost of pumping 1,000,000 gallons, North Side. Total number gallons pumped in city from Janua	ng stat	ion fr	om January 1, rom November	2,581,912,045 1,755,879,640 382,779,500 7,073,731 4,810,629 6,273,434 12,933,072 +85.71 +3.13

Table No. 3.

Showing in Detail Length and Size of Mains January 1, 1890.

36-inch.	1,566.7
24-inch.	81.5 834.
16-inch.	2,509.1 1,289. 1,285.
12-inch.	2,554.6
10-inch.	
8-1nch.	3.B.S. 33.72.2
6-inch.	2, 476. 8,33.5 1,225.5 2,37.4 2,37.4 1,47.7 1,47
То-	Plymouth av Fourth av N Fourth av N Ther da v. N Third av N Twentieth av N Twentieth av N Twentieth av N Shingle creek T. Shingle av N Fliteenth av N Fliteenth av N Flivst av N Twenty-first av N Flivst av N Chestmut av S Flivst av S Sixteenth av N Linden av Chestmut av S Sixte av S S Sixte av S S Sixte av S S Sixte av S S Sixte av S S S S S S S S S S S S S S S S S S
FROM—	Fourth av. N. Third av. N. Hennepin av. N. Twenty-fourth av. N. Twenty-fourth av. N. Twenty-fourth av. N. Third av. N. Sixth av. N. Sixth av. N. Sixth av. N. Sixth av. N. Fifteenth av. N. Fifteenth av. N. Fifteenth av. N. Finst av. N. Twentieth av. N. Finst av. N. Thenepin av. Thenepin av. Thenepin av. Thirteenth av. N. Finst av. N. Hennepin av. Hennepin av. Chestnut av. Hennepin av. Hennepin av. Hennepin av. Krist av. N. Chestnut av. Hennepin av. Hennepin av. Hennepin av. Krist av. N. Hennepin av. Hennepin av. Hennepin av. Krist av. S. Reventh av. S. First av. S. Krist
I	First st. N. T. First st. N. T. First st. N. T. First st. N. T. Feerond st. N. T. Feerond st. N. T. F. First st. N. T. F. Fourth st. N. F. Fourth st. N. F. Fourth st. N. F. Fifth & Sixth st. N. F. Fifth st. N. Tweifth st. N. Tweifth st. N. Tweifth st. N. Tweifth st. N. F. Fourteenth st. E. F. Fourteenth st. E. F. Fourteenth st. F. F. Nineteenth st. F. F. Nineteenth st. F. F. Nineteenth st. F. F. Nineteenth st. R. F. Nineteenth st. N. F. Franklin av. W. N. Franklin st. W. F. Twenty-frith st. W. F. F. Wenty-frith st. W. F.

472.7 369.3 688.1 1,955.1	
5.887.7 2.850.8 2.850.8 3.744.6 3.744.6	597.2
1,203,47	
1,264.8 2,285.2 3,876. 179.1 642.3 3,625.	1,987.3
357.7.7 357.7.7 859.1 1,985.2 1,007.4 4,007.4 4,52.3 801.3 1,801.3 1,801.3 1,801.3 1,801.3 1,801.3	1,256.8 234.6 234.6 234.6 235.4 1,925.4 2,879. 2,879. 2,879. 2,879. 2,879. 2,879. 2,879. 2,879. 2,879. 2,879. 2,879. 2,879. 4,51.8
Fremont av Eremont av Hennent av Hennent av Hennent av Hawthorne av Twentyeste Creek M. & M. trackek M. & M. trackek M. & W. trackek M. W. Twenty-ninth av N. Twenty-ninth av Erie av Frie av	Sixth av. N. Sixth av. N. Western av. Western av. Twenth av. N. Eighth av. N. Eighth av. N. Fluirteenth av. N. Western av. Neollet av. Neollet av. Neollet av. Neollet av. Tenth and Logan. Logan av. Irving av.
Hemepin av. Hemepin av. Hemepin av. Dupontat av. Dupontat av. Bleasaurt av. Second av. N. Highland av. N. Erie av. Lauvel av. Ferie av. Lauvel av. Western av. Hawthorne av. Lauvel av. Nestern av. Western av. Western av. Nestern av. Nestern av. Sixth av. N.	Fifth av. N. Sixth av. N. Sixth av. N. Sixth av. N. Twentieth av. N. Sixth av. N. Twelfth av. N. Twelfth av. N. Fifth av. N. Eighth av. N. Eiword, second st. Twenty-second st. Twenty-sixth st. Lake st. Lake st. Lake st.
Twenty-frth st. W Twenty-frth st. W Twenty-sev'th stW Thirty-second st W Thirty-second st W Oak Lake av N Lyndale av S Bupont av S Bupont av S Enerson av Enerson av Enerson av Enerson av	Girard av Hunboldt av Irving av Irving av Irving av Knox av Knox av Knox av Genan av Genan av Gelwod av Themas place Elwood av Elwood av Blaisdell av Blaisdell av Blaisdell av Blaisdell av Blaisdell av Blaisdell av

Table 3-Continued.

-	
36-inch.	
24-inch.	1,047.3
16-inch.	214. 2,2168. 2,411. 1,633. 1,633. 1,941.8
12-inch.	2,045.8 2,045.8 2,045.8 2,045.8 2,045.8 2,045.8
10-inch.	2009. 3015.
8-inch.	1,308.3 2,633.9 4,144.8 494.3 475.8 859. 826.
6-inch.	1,280, 641.8 2,001. 7,52.8 2,007.5 2,067.5 2,063.7 1,610. 1,610. 1,632.9 588. 2,168.
Т0-	Twenty-fourth st. Twenty-fourth st. Twenty-fourth st. Twenty-fourth st. Thirty-third st. Thirtietha av. N. Twenty-seventh st. Twenty-seventh st. Twenty-seventh st. Twenty-first av. Fourth av. N. Bassett's mill Hemepin av. Fourth av. S. Filtha av. S. Filt
FROM—	W.Twenty-fourth st Franklin Eake st Franklin st Franklin st Twenty-sixth st Second av S Second av S Fifth av S Fifth av S Fifth av S Eleventh av S Sixth av S Second av S Second av S Second av S Second av S Sixth av S Second av S Sixth av S Thenepin av S Third av S Sixth av S Sixth av S Fleventh av S Nicollet av Nicollet av S Hennepin av S
IN-	Pleasant av Grand av. S Grand av. S Harriet av. S Washington av. Washington av. Washington av. Washington av. Eirst av. S. First st. S. First st. S. First st. S. Second st. S. Fourth st. S. Fourth st. S. Fourth st. S. Fourth st. S. Frithst. S. Fifthst. S. Sixth st. S. Seventh st. S. Seventh st. S.

2,061. 1,686. 380.9 1,644. 1,644. 1,043. 310.3 310.3 2,650.2 2,650.2 1,386.0 1,386.0	
9:25	
3,262, 420, 420, 410,9 11,286,3 1,286,3 3,556, 4,041,2 401,2 2,622,2 2,622,2 2,622,2	
399.4 370.5 370.5 985.5 1,886.7 1,888.5 386.7 386.7 1,888.5 386.7 386.7 1,888.5 386.7 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 386.7 1,888.5 386.7 386.7 1,888.5 386.7 386.7 1,888.5 386.7 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,888.5 386.7 1,887.5 1,887	
Tenth av. S. Eleventh av. S. Fourteenth av. S. Fourteenth av. S. Fifteenth av. S. Third av. Third av. Seventh av. S. Sixteenth av. S. Sixth av. S. Nicollet av. Sixth av. S. Nicollet av. Sixth av. S. Thirteenth av. S. Nicollet av. Sixth av. S. Nicollet av. Fifth av. S. Nicollet av. Sixth av. S. Chicago av. Firth av. S. Chicago av. Sixth av. S. Fourth av. S. Fourth av. S. Chinta av. S. Sixth av. S. Chinta av. S. Fourteenth st. Fifth av. S. Chinta av. S. Sixth av. S. Shride av. Chinta av. S. Shride av. Sixth av. S. Sixth av. S. Chicago av. Sixth av. S. Coddar av. Sixth av. S. Chedar av. Sixth av. S. Chicago av. Sixth av. S. Chedar av. Nimth av. S. Chinton av. Clinton av. Clinton av. Fortland av. Fortland av. Egghth st. Louis rd. h.	
Second av. S. Tenth av. S. Tenth av. S. Thirteenth av. S. Theretth av. S. Theretth av. S. Theretth av. S. Eleventh av. S. Eleventh av. S. Eleventh av. S. Eleventh av. S. Thenepin av. S. Thenepin av. S. Hennepin av. Nicollet av. Hennepin av. Nicollet av. Hennepin av. Nicollet av. Third av. S. Eleventh av. S. Third av. S. Third av. S. Third av. S. Nicollet av. Third av. S. Nicollet av. Third av. S. Nicollet av. Second av. S. Nicollet av. Second av. S. Nicollet av. Second av. S. Nicollet av.	1010
Seventh st. S. Seventh st. S. Seventh st. S. Seventh st. S. Eighth st. S. Figherenth st. S. Eleventh st. S. Fifteenth	Life dv. 11

Table No. 3-Continued.

36-inch.	
24-inch.	7.109 82.7 82.7 601.7 1,866.7
16-inch. 2	487.4 2.191. 1.180.3 1.180.3 7.85.2 8.85.2
12-inch.	407. 1,003.8
10-inch.	703.
8-ineh.	7.482 7.6677.1 1.6677.3 643.5 8441. 1.119.5 1.119.5 4.231.
6-inch.	2, 188. 1, 2, 3, 4, 4, 5, 5, 6, 7, 1, 1, 2, 5, 6, 7, 1, 1, 2, 5, 7, 1, 1, 2, 5, 7, 1, 1, 2, 5, 7, 1, 1, 2, 5, 7, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
T0-	Railroad. Norgan av. Russell. Russell. Ninth st. N. Washington av. Washington av. Sixth st. N. Vashington av. Second st. Emerson av. Fourth st. Bradford. Bradford.
FROM—	Washington av East of R. R. bridge. Second st. N. Bridge. Second st. N. Fifth st. N. Fifth st. N. Fifth st. N. Washington av V. Fifth st. N. Washington av V. Fifth st. N. Washington av V. Fifth st. N. Fifth st. N. Fifth st. N. Fifth st. N. Girard av V. Fifth st. N. Girard av V. Washington av V. Lymale av V. Freiffu st. Freiffu st. Freiffu st. Freiffu st. Freiffu st. Freiffu st. Ninth st.
In-	Western av Western av Western av Second av N Second av N Third av N Sixth av N Seventh av N Eighth av N Eighth av N Filteenth av N Filteenth av N Metter av N Sixteenth av N Sixteenth av N Metter av N Sixteenth av N Metter

1,047.3 1,047.3 1,914.9 3,298.1
1,166.
1,100. 422.5 1,891.6 1,734. 681.7 3,076.
1,86.5 186.5 5.46.
1,718.3 1,008.3 1,0
Aldrich av Forteenth st. Fourth av Neuth av Neuth av Neuth av Neuth av Neuth av Neuth av Highland av Highland av Highland av Highland av Highlach place of the Isles boul Lake View av Newton av Newton av Newton av Friteenth st. Firteenth st. Firteenth st. Firteenth st. Clifton place of oroveland av Thenty-second st. Second st. Second st. Second st. E. Thirty-third st. E. Twenty-fourth st. E. Thery-third st. E. Twenty-fourth st. E. Second st. Second st. Second st. Second st. Second st. Second st. E. Twenty-third st. E. Twenty-third st. E. Twenty-third st. E. Stwenty-eneuth st. E. Stwenty-second st. Twenty-second st. Twenty-second st. E. Twenty-second st. Twenty-second st. Thirty-third st. E. Twenty-second st. Thirty-third st. E. Twenty-second st. E. Twenty-second st. E. Twenty-second st. E. Thirty-third st.
st. st. st. t st. st. st. st. st.

Table No. 3-Continued.

36-inch.	
24-inch.	1,150. 3,773. 3,081.2
16-inch.	374. 418. 796.
12-inch.	1,699.6 10,284, 1,942.6 6,666.6
10-inch.	
8-inch.	1,912.0 1,912.0 1,360.7 1,360.7 1,563.8 2,263.8 1,503.
6-inch.	618.1 689.3 689.3 716.7 1,651.1 1,651.1 1,651.1 1,651.1 1,651.1 1,55.7 1,57.6 1,594. 669.2 1,594. 669.2 1,394. 669.2 1,394. 669.2 1,394. 669.2 1,394. 669.2 1,394. 669.2 1,394. 669.2 1,394. 669.2 1,394. 669.2 1,394. 669.2 1,394.
То—	E. Twenty-sixth st. F. Wenty-seventh st. E. Therty-seventh st. E. Twenty-sighth st. E. Therty-sighth st. E. Therty-cluth st. F. Therty-third st. F. Therty-third st. F. Twenty-furth st. F. Twenty-sixth st. Nineteenth st. Ninth st. Ninth st. Twenty-frith st. F. Twenty-frith st. E. Twenty-frith st. F. Twenty-sixth st. F. Twenty-sventh st. E. Twenty-sventh st. E. Lake st. F. Twenty-sventh st. E. Lake st. F. Take st. F. Take st. Twenty-second st. Twenty-second st. Twenty-second st. Twenty-second st. Twenty-scond st.
	Clinton av E Twenty-sixth st. Clinton av E Twenty-sixth st. Clinton av E Thirty-second st. Clinton av E Twenty-sevent E. Twenty-sevent st. E Thirty-second st. Fourth av S. First st. Fourth av S. First st. F

1.152
846. 250. 250. 669.9
3,645. 149.3 7,62.2 120. 1,611.
3,896.3 1,396.3 1,396.3 3,280.1 3,280.1 3,284.6 4,030.6 4,030.6 1,777.5 1,180.6 8,952.3 1,180.6 1,180.7 1,284.7 1,284.7 1,191.1 1,191.1 1,190.7 1,190.
282.8 282.8 282.8 282.8 282.8 282.8 282.8 282.8 282.8 282.8 282.8 282.8 282.8 282.8 282.8 282.8 282.8 282.8 283.8
E. Twenty-eighth st. Lake st. Lake st. E. Frankin av. E. Twenty-sec'nd st. E. Twenty-eighth st. Second st. Fifth st.
E. Franklin av. Twenty-eighth st. S. E. Franklin av. Franklin av. Franklin av. Fifth st. S. Tifth st. S. Franklin av. Twenty-eighth st. Twenty-eighth st. Fifth st. Fifth st. S. Fifth st. Fifth st. S. Fifth st. S. Fifth st. Fif
Bloomington av. Bloomington av. Bixteenth av. S. Sixteenth av. S. Sixteenth av. S. Cedar av. Cedar av. Cedar av. Cedar av. Cedar av. Cedar av. Ninsteenth av. S. Twenty-first av. S. Twenty-sec dav. S. Eighth av. S. Eighth av. N. E. Eighth av. N. E. Eighth av. N. E. Eighth av. N. E. Fighth av. S. E. Thirteenth av. S. E. Thirteenth av. S. E. Third av. S. E. Third av. S. E. Third av. S. E. Third av. S. E. Fith av. S. E.

Table No. 3-Continued.

- 1	
36-inch.	
24-inch.	
16-inch.	
12-inch.	2,2416.9 1,240.9 1,240.5 5,778.5 1,778.1 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7 2,234.7
10-inch.	
8-inch.	380. 1,190.5 1,190.5
6-inch.	1,374, 1,374, 1,374, 1,374, 1,376, 1,376, 1,376, 1,087, 1,087, 1,087, 1,1087,
T0-	Seventh st. Como av. University grounds Eighth st. Como av. Delaware Talmadge Fifth st. S. E. Fifth st. S. E. Fourth st. S. E. Cambridge st. Dump Third av. S. E. Sixteenth av. S. E. Fiftherst. Sixteenth av. S. E. Fifteenth av. S. E. Tweefth av. S. E. Tweefth av. S. E. Tweetty-sevel dav. N. E. Fifteenth av. N. E. Fifteenth av. N. E. Tweetty-sevel dav. N. E. Fifteenth av. N. E. Fifteen
Евом—	Sixth st. Division st. Fifth st. Eighth st. Como av. Eighth st. S. E. Como av. Como av. Como av. Energh st. S. E. Como av. Como av. Energh st. S. E. Como av. Como av. Como av. Energh av. Como av. Energh av. Como av. Energh av. Como av. Energh av.
In-	Thirteenth av. S.E. Fifteenth av. S.E. Sixteenth av. S.E. Sales S.E. S.E. Second st. S.E. E. Sifth st. S.E. E. Sixth st. S.E. Como av. S.E. E. Sibley st. N.E. Sibley st. N.E. Marshall st. N.E. Marshall st. N.E. Marshall st. N.E.

	12,104.5	
2,482.7 2,382.4 2,990.	53,744.5	14,788.7 6,111.7 10,485.9 11,785.5 11,785.5 10 miles, 2,754 feet. 750,771 feet. 750,771 feet.
	45,832.3	10 mil
2.55.91 1,730.5 170.7	115,108.	
	16,786.3	
820. 1,737.38 2,845. 2,197.9 2,197.9 1,105.5 1,105.3 1,991.1 3,22.8 645.	192,413.8	ar 1889:
1,574.8 1,748. 838.8. 1,600.8 1,600.8 1,616. 3,564. 7,554. 7,531. 661.9 662.8 1,731. 3,79. 3,20. 3,20.	314,911.1	uring the ye
Broadway Thirteenth av. N. E. Eighteenth av. N. E. Fourth av. Broadway Broadway Broadway Fourth av. N. E. Fourth av. N. E. Broadway Seventeeth av. Seventeeth av. Seventeeth av. Seventeeth av. Fourth av. Broadway Fourth av. Eighteen & ½ av. Broadway Broadway Tweifth av. Fighteen & ½ av. Broadway Frankelth av. Broadway Frankelth av. Broadway Broadway Frankelth av. Broadway Frankelth av. Broadway Frankelth av. Fighteen & ½ av. Broadway Frankelth av. Fighteen & ½ av. Broadway Frankelth av. Fighteen & ½ av. Frankelth av. Fran		The following is the total number of feet of all kinds laid during the year 1889 Six-inch pipe Eight-inch pipe Twelve-inch pipe Sixteen-inch pipe Twenty-four inch pipe Twenty-four inch pipe Total number of miles laid during 1889. Total number of feet in city of all kinds. Total number of feet in city of all kinds.
Seventh av Broadway st. Broadway st. Central av Fourth av Central av Eentral av Eentral av Fourth av Fourth av Fourth av Fourth av Fourth av Frourth av Frourth av Frourth av Frourth av Friteenth av Fr		llowing is the total number of feet of all Six-inch pipe. Eight-inch pipe. Sixteen-inch pipe. Total Total Total number of miles laid during 1889. Total number of feet in city of all kinds.
Main st. N. E. Main st. N. E. Second st. N. E. Second st. N. E. University av. N. E. University av. N. E. Fourth st. N. E. Fight st. N. E. Fifth st. N. E. Fifth st. N. E. Fifth st. N. E. Adams st. N. E. Madison st. N. E. Madison st. N. E. Jefferson st. N. E. Harrison st. N. E. Harrison st. N. E. Harrison st. N. E. Harrison st. N. E. Broadway st.	Total	The following is the fight-inch pit Eight-inch Twelve-inc Sixteen-inc Twenty-for Twenty-for Total numb Total n

Table No. 4.
Water Mains to be Laid in the Year 1890.

Extension No.	STREET OR AVENUE.	From—	То—	Size in inches.	Approxi- mate length, ft.
497	S. Aldrich av	W. Twenty-second st W. Twenty-ninth st	W. Twenty-seventh st	6	2,636
498 499	S. Aldrich av N. Aldrich av	W. Twenty-ninth st Sixteenth av. N	W. Twenty-seventh st W. Thirty-first st Twentieth av. N	6	1,201 1,436
-500	N. Aldrich av Bloomington av. S. Colfax av S. Colfax av Chicago av Chicago av Division st. N. Eleventh st. Eighth st. S. E. V. Eleventh st.	Sixteenth av. N. E. Lake st. W. Lake st. W. Twenty-seventh st.	W. Thirty-second st W. Thirty-second st W. Twents-eighth st E. Thirty-fourth st	8	1,310
501 502	S. Colfax av	W. Twenty-seventh st.	W. Thirty-second st W. Twents-eighth st	6	1,309 607
503	Chicago av	E. Lake st. E. Thirty-fourthst.	E. Thirty-fourth st	8	2,513
559 504	Division st	Thirteenth av. S. E	Fourteenth av. S. E.	12 12	$2,676 \\ 330$
505 424	N. Eleventh st	Chestnut av	Hennepin av	6	608 874
-506	Eighth st. S. E.	Chestnut av. First av. S. Tenth av. S. E.	Hennepin av Third av. S Fourteenth av. S. E	6	1,598
507 508	Eighth st. S. E. N. Eleventh st. S. Eighth st. N. Emerson av. First av. S. First av. S. Fourth st. S. E. Fifth av. S. Fillmore st. Fourth av. S. N. Fremont av. S. Fremont av.	Western av	Twenty-ninth av S	6	329 1,628
509	N. Emerson av	Twenty-inth av. S. Twenty-fourth av. N. E. Thirty-third st. S. Tenth st. Fifteenth av. S. E. F. Twenty-fourth st	Twenty-nath av. N. T. Thirty-fourth st S. Twelfth st Sixteenth av. S. E.	6	1,494
510 511	First av. S	E. Thirty-third st S. Tenth st	E. Thirty-fourth st	6	648 850
-512	Fourth st. S. E.	Fifteenth av. S. E.	Sixteenth av. S. E	6	410
513 -514	Filth av. S	E. Twenty-fourth st	E. Twenty-seventh st.	6	2,016 1,276
-515	Fourth av. S	E. Thirty-first st	E. Thirty-second st	6	624
516 517	S. Fremont av	W. Twenty-seventh av. N.	W. Twenty-eighth st.	6	$1,930 \\ 614$
518	Fifteenth av. S	E. Twenty-fourth st	E. Twenty-sixth st	6 8	1,306
429 -519	Fourteenth av. S	E. Twenty-fourth st Broadway E. Thirty-first st Twenty-seventh av. N. W. Twenty-seventh st. E. Twenty-fourth st Third av. S Como av Lyndel av.	E. Twenty-seventh st. Spring st. E. Thirty-second st. Thirty second av. N. Twenty-eighth st. E. Twenty-sixth st. Sixth av. S. E. Twenty-sixth st. Division st. N. Second st	8	1,260 2,621 1,322
520	Fourteenth av. S. E	Como av	Division st	12 24	1,322 576
521 523	Fifteenth av. S. E	Division st	N. Second st	6	660
.524	Groveland av	W. Twenty-fourth st Clifton place	W. Twenty-sixth st	6	1,314 408
525 526	N. Fremont av. S. Fremont av. Fifteenth av. S. Fifth st. Fourteenth av. S. Fourteenth av. S. Fourteenth av. S. E. Forty-first av. N Fifteenth av. S. E. Garfield av. Groveland av. E. Grant st. Grand av.		Winter st W. Twenty-sixth st Hennepin av First av. S.	6	430
-527 528	Grand av. Harriet av. S. Humboldt av. S. Irving av. N. James av. Jefferson st. N. Knov av.	W. Twenty-sixth st W. Twenty-fourth st W. Thirty-third st W. Thirty-fourth st Fifth av. N. Seventeenth av. N. E.	W Twenty 6fth at	6	640 694
-529	S. Humboldt av	W. Thirty-third st	W. Thirty-fourth st	6	584
531 -532	S. Irving av N. James av	W. Thirty-fourth st	W. Thirty-fifth st	6	629 634
533	Jefferson st	Seventeenth av. N. E	W. Thirty-fourth st W. Thirty-fifth st Sixth av. N Eighteenth av. N. E.	8	530
443 534	Lindley av. E. Lake st. N. Lyndale av.	Present terminus W. Twenty-sixth st	W Twenty-eighth st	6	$\frac{374}{1,254}$
447	E. Lake st	W. Twenty-sixth st. Third av. S. Twenty-ninth av. N. Thirty-second av. N. Tenth av. N.	Chicago av Thirty-second av. N Forty-first av. N Twelfth av. N	12 16	2,627 $1,421$
535 536	N. Lyndale av	Thirty-second av. N	Forty-first av. N	24	5,869
494 453	N. Lyndale av N. Morgan av Ninth av. S	Tenth av. N	Twelfth av. N E. Twenty-sixth st	6	627 643
537	W. Nineteenth st Ninth av. S	E. Twenty-fifth st Ridgewood av	Lyndale av E. Twenty-fourth st	6	1,970
538 539			E. Twenty-fourth st Thirty-third st	6 8	687 670
454	E. Nineteenth st	Thirty-second st Third av. S	Fifth av. S	24	994
540 541	Polk st.		Twenty-sixth av. N. E.	6	401 1,821
542	Nicollet av. E. Nineteenth st. Pleasant av. Polk st. N. Russell av. Riverside av. Sixth av. N. Sixteenth av. S. E. Second av. S. Thirteenth st.	Twenty-second av. N. E Sixth av. N	Twenty-sixth av. N. E Tenth av. N. Twenty-first av. S. Russell av. Division st. E. Lake st. Vine place N. Second st. Portland av.	6 16	1,307
459 543	Sixth av. N	James av	Russell av	6	1,439 2,785
544	Sixteenth av. S. E	Talmadge av	Division st	6	655 1,328
545 488	S. Thirteenth st	E. Twenty-eighth st Harmon place Pacific st	Vine place	6	814
546 547	S. Thirteenth st Twenty-eighth av. N	Pacific st	N. Second st	6	794 661
548	Third st. S. E	Oak st	Malcolm st	6	4.350
549 550	Twelfth av. S. E	Como av	Division st	6	1,281 655
493	E. Twenty-fifth st. Third st. S. E. Twelfth av. S. E. Tuttle st. S. E. Tenth av. N.	Logan av	Malcolm st. Division st. Division st. Morgan av.	6	326
551 552	W. Thirty-fourth st	Garfield av	Lyndale av	6	329 338
553	W. Thirty-fourth st W. Twenty-fourth st Twenty-seventh av. N. Twenty-second av. N. E.	Pacine St. Park av. Oak st. Como av. Talmadge av. Logan av. Humboldt av. Garfield av. Emerson av.	Lyndale av. Lyndale av. Fremont av Polk st. Eighth st. S. E. E. Twenty-fifth st. Humboldt av	6	327 467
554 555	Twenty-second av. N. E Thirteenth av. S.E	Harrison st	Eighth st. S. E.	16	380
556	Tenth av. S	E. Twenty-fourth st	E. Twenty-fifth st	6 12	610 657
558 560	Tenth av. S		Humboldt av E. Twenty-fourth st	6	713
561 562	Tenth av. S W. Thirty-third st Tenth av. S. Tenth av. S. E. Thirty-eighth st Washington st	E. Twenty-second st E. Thirty-eighth st	E. Twenty fourth st E. Thirty-ninth st Tenth av. S Seventeenth av. N. E	6	633 714
475	Washington st	Chicago av	Seventeenth av. N. E	12	3,828

Table No. 5. WEST SIDE.

STREET OR	Intersecting	nd lo- on of rant	N	O. OF GA	TES AND	SIDE OF S	TREET O	N WHICH	SITUATE	ED.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrant	4	6	8	10	12	16	24	36
N Aldrich av	Western av			1 N						
	3d av N 4th av N	1 SW 1 SW 1 SW								
	5th av N	1 SW								
	6th av N ½wy.to 8 av N	1 SW		1 N						
	Hawthorn av.			1 N						
S Aldrich av	Linden av W 27th st	1 SW		1 S						
	W 28th st	1 NW								
At'tic ele'tor.	Nr. 36-in. pipe 41 ft. S of 36-in			1 N						• • • • •
	pipe 103 ft.S of 36-in	1								
Blaisdell av	pipe W Fra'klin av			1 S						
	W 22d st W 24th st	1 NW 1 NW 1 NW		1 S						
	W 25th st	1 NW								
	W 26th st Half way	1 SW								
	W 27th st			1 N						
	W Lake st W 31st st	1 NW			18					
	W 32d st	1 NW 1 NW 1 NW			1 S					
Dloomiton or	W 33d st E Franklin av	1 NW			18					
Bloom ton av.	E 21st st	1 NW			1 10					
	E 22d st E 23d st	1 NW 1 NW 1 NW 1 NW								
	E 24th st	1 NW			18					
	Half way E 25th st	$\frac{1}{1}$ NW								
	Half way	1								
	E 26th st	1 NW								• • • • •
	Half way E 27th st	1 NW			2 N & S					
	Half way E 28th st	1 NW								
	T 90th of	1 NW 1 NW 1 NW			1 N					
Power sewmil	E Lake st Near 39th avN Western av 3d av N	$\frac{1}{2}$ NW			1 N					
Bovey sawmil N Bryant av .	Western av			1 N						
	3d av N 4th av N	1 SW 1 SW								
	5th av N	1 SW								:::::
	8th av N	1 SW 1 SW		2 N & S						
	11th av N	1 SW		18						
	12th av N Plymouth av.	$\frac{1}{1} \frac{\text{SW}}{\text{SW}}$								
	14th av N	1 SW	1	2 N & S	3					
	15th av N	1 SW				.				
	17th av N	1 SW	7	1 N						
	18th av N 20th av N	1 SW 1 SW	,	18						
Cedarav	Bluff st	1 SW	7							
	S 2d st S Wash. av	1 SE		*25						
	S 3d st	1 NW	7	18						
	S 4th st	1 SW 1 SW	7	1.5	2 N & S					
	S 6th st S 7th st	1 SW	7							
	Minnehahaaw S 9th st	1 SW 1 SW			2 N & S	5				
	E Franklin av				2 N & S	3				
	E 2d st ½ way E 22d st	1 NW	7							• • • • •
	Half way	1	7							
	E 24th st Half way	1 NW			. 15					

^{*}Is between the two Washington avenue pipes.

Table No. 5—Continued.

STREET OR	INTERSECTING	nd on can	NO.	OF GAT	ES AND S	SIDE OF	STREET (ON WHIC	H SITUA!	red.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	30
Cedar av	E 25th st	1 NW								
	Half way E 26th st	$\frac{1}{1}$ NW			1 S			• • • • • • • •		
	Half way	1			1.0					
	Half way E 27th st	1 NW								
	Half way	1 NW			1 N					
	E 28th st E 29th st	1 NW								
	Half way E Lake st	$\frac{1}{1}$ NW								
	Tr Stet et	1 NW			1 S					1:::
	E 32d st	1 NW 1 NW 1 NW 1 NW								
	E 33d st E 34th st	$\frac{1}{1}\frac{NW}{NW}$			1 N					
Chestnut av.	N 11th st	1 SW		1 N	1 14					1:::
	N 11th st N 12th st	1 SW								
	Half way	$\frac{1}{1}$ SE		1 E						
hicago av	N 15th st S 10th st	1 SW			18					
	E 15th st	1 NW 1 NW 1 NW 1 NW 1 NW 1 NW 1 NW								
	E 16th st E 17th st	1 N W 1 N W			1 N					1:::
	E 18th st	1 NW								
	E 19th st	1 NW 1 NW			2 N & S	• • • • • • • • •				
	E Franklin av E 21st st	1 NW			anas					
	E 220 St	1 NW								
	E 250 St	1 NW 1 NW								
	E 24th st Half way	1 1 1 1								
	(E 25th st	1 NW			2 N & S					
	Half way E 26th st	1 1 NW								
	Half way	1 1 "								
	E 27th st	1 NW			2 N & S					
	Half way E 28th st	1 NW			· · · · · · · · ·					
	Half wav	1								
	Half way E 29th st	1 NW								.
	Half way	1 NW			1 N					
Clifton av	E Lake st Vine place			1 W						
	Sixth wav									
	Third way Half way			1						
	% way									
	5-6 way									٠ ٠ ٠
Clinton av	E Grant st	1 SW	,		18	3				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	E 14th st	1 N W	7							٠.
	E 15th st E 16th st	1 NW	,							
	E 17th st	INW	7							
	E 18th st	1 NW 1 NW 1 NW 1 NW	7		1 N					
	E 19th st E Franklin av	INW	7		2 N & S					
	Half way	. 1								
	E 22nd st	1 NW	7							
	Half way E 24th st	1			1 N	i				
	E 25th st			. 18	3					
	Half way E 26th st	1 NW	,							
	Half way	1 7)							
	IE 27th st	1 N W	7	. 2 N & S						
	E 28th st E 32nd st		7							
Colfax av		1 80	/							
	W 25th st.	1 NW	7	. 1 N						
Colfax av	W 26th st		7	. 1 N	1					
N Dupont av	W 26th st W 27th st 6th av N	1 14 11			1 N 1 N					
	111th av N				1 N					
	Half way 12th av N	1 sw	7							

Table No. 5-Continued.

STREET OR	No. and location of hydrants.		No	OF GAT	ES AND	Side of	STREET (ON WHIC	H SITUA	TED.
AVENUE OF PIPE.	STREET.	No.al catic hydr	4	6	8	10	12	16	24	36
N Dupont av.	14th av N	1 SW 1 SW			2 N & S					
	15th av N 16th av N	1 SW			2 N & S					
	17th av N	1 SW								
	18th av N Half way	1 SW								
	20th av N 21st av N	1 OW			2 N & S					
	22d av N	1 SW								
	23d av N	1 SW 1 SW 1 SW 1 SW 1 SW			1 N					
	24th av N 25th av N	1/SW 1/SW								
C Dumant au	26th av N	1 SW 1 SW			1 S					
S Dupont av	W 26th st W 27th st	1 SW			2 N & S					
	W 28th st	1 NW								
	W 29th st W Lake st	1 SW			2 N & S 2 N & S					
	Half wav	1 NW								
	W 31st st Half way	1 NW								
	W 32d st	1 NW			18					
N Eighth st	W 32d st. ½ way W 33d. Hennepin av.	1		1 N 1 S						
N Eighth st S Eighth st	Hennepin av.	T CIVI		1 S						
	Mary place Nicollet av	1 SW 1 SE 1 NE		1 N						
	1st av. S	1 NE								
	2d av. S	1 NE 1 SE			1 N		• • • • • • • • •			
	4th av. S	$\tilde{1}$ $\tilde{S}\tilde{E}$								
	5th av. S 6th av. S	1 SE			1 N		1 8			
	7th av. S	1 SE					1 N			
	8th av. S 9th av. S	1 SE 1 SE		• • • • • • • • •			1 S			
	10th av. S	i še								
	11th av. S 12th av. S	1*					2 N & S	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
	13th av. S	1 NW					1 S			
	14th av. S 15th av. S	1 NE 1 NE							• • • • • • • • • • • • • • • • • • • •	
	16th av. S	1 NE					2 N & S			
	17th av. S Cedar av	1 SE 1 NE				• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •			
	21st av. S.	i se								
Eighth av. N.	22d av. S N 5th st			1 W 1 W						
English av. IV.	Hoag av	1 SE 1 SE		1 11						
	Bradford av Oak Lake av.	1 SE 1 SE		1 E						
	½way to Lyn. Lyndale av	1								
8th av N	Lyndale av Girard av			1 E	2 E & W					
	Humboldt av.	1 NE			~ 11 cc w					
	Irving av	1 NE 1 NE 1 NE 1 NE		1 W	i E					
	Logan av	1 NE		1 E	т Е					
8th av S	Wash. av S 3d st	1 NW		1 W						
	S 4th st	1 NW		2 E & W						
	S 5th st S 6th st			2 E & W						
	S 7th st	1 NW 1 NW 1 NW		≈ E ∝ W						
	S 8th st S 9th st	1 NW								
	S 10th st			1 É						
8th av N	N 1st st	1 NW								
18th av S	N 2d st E Franklin av			1 E 1 S						
	Hall way	1 27377								
	E 22d st Half way	1 NW								
	E 24th st	1 NW		1 37						

Table No. 5-Continued.

STREET OR	Intersecting	nd lo- n of ants.	No	OF GAT	ES AND S	SIDE OF S	STREET O	N WHICH	H SITUAT	red.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
N 11th st	1st av N	1 SE		1 N 1 S						
S 11th st	Western ay Hennepin av.			1 S						
	Harmon place	1 NW		1 N						
	Mary plac Nicollet av	1 SE 1 SE		2 N & S						
	1st av S	1 NE		2 14 00 15						
S. 11th St	3d av. S	1 SE								
	4th av. S 5th av. S	1 SE			1 N					
11th av. N	N. 5th st N. 6th st			1 W						
	N. 6th st	1 NE		2 E & W						
	Lyndale av Aldrich av	1 NE		\$ E & W						
	Bryant av	1 NE		1 E						
	Dupont av Emerson av	1 NE		1 E						
	Fremont av	1 NE 1 NE 1 NE 1 NE 1 NE 1 NE								
11th av. S	S. 2d st Wash. av						1 W			
	Wash. av S. 3d st	1 NE			• • • • • • • • • •		2 E & W		1	
		Flush								
	S. 4th st	1 NW 1 NW								
	S 5th st	Flush					1 W			
	S. 6th st	1 NW								
	S. 7th st	Flush								
	S. 8th st	1 NW 1 NE								
		H'Inch					1 E			
	E. 14th st	1 SW								
	S. 9th st E. 17th st	1 SW 1 SW 1 NW								2
	E 18th st									
	E. 19th st E. Fr'nklin av	1 NW 1 NW 1 NW 1 NW 1 NW 1 NW 1 NW					2 N & S			
	E. 21st st	1 NW								
	E. 22d st	1 NW								
	E. 22d st E. 23d st E. 24th st	1 NW					1 N			
Elwood av	oth av N	1 NW	:	1 N						
N Em'rson av.	Irving av 6th av N	1 SE		1 N						
	Half way	1								
	8th av N Half way	1 SW		2 N & S						
	IIIn av N	1 SW		1 N						
	Half way	1								
	12th av N Plymouth av.	1 SW 1 SW		2 N & S						
	14th av N	1 SW								
	15th av N 16th av N	1 SW		1 S						
	1/2 way from			1.5						
	1/2 way from 18th to 20th av N	4								
	20th av N	$\frac{1}{1}$ SW		18						
	20th av N 21st av N 22d av N	1 SW 1 SW		2 N & S						
	22d av N 23d av N	1 SW								
	24th av. N	1 SW 1 SW								
		1 NE 1 NW		1 E			¦			
15th av N	N 2d st	INW		2E & W						
	N 1st st N 2d st W'shingt'n av N 3d st	1 NE								
15th av S	N 3d st W'shingt'n av	1 NE		i w						
13тн а v 5	S 3rd st	1 NE		T 44						
	S 4th st	1 NW		4 73						
	S 5th st S 6th st	1 NW		1 E	2 E & W					
	S 7th st	1 NW								
	S 8th st	1 NW			1 W					
	S 9th st S 10th st	1 NE 1 NW 1 NW 1 NW 1 NW 1 NW 1 NW			1 E					
	E 18th st	1 SW		l			l			

Table No. 5-Continued.

STREET OR	Intersecting	nd lo- on of ants.	No	o. of Gat	ES AND S	SIDE OF	STREET O	N WHICH	H SITUAT	ED.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
15th av. S	E 19th st	1 NW (waters)							-	
TO 15414	E Franklin av	1 N W		1 E	1 N					
E 15th st	3d av. S Clinton av	1 SE 1 SE 1 SE		1 E						
	4th av. S 5th av. S	1 SE		1 W						
	Portland av.	1 SE		1 E						
	Half way Park av	1		1 W						
W. 15th st	Nicollet av Vine place	1 SW		1 W						
	Vine place	1 SE 1 SE								
N. 5th st	Spruce place. 1st av. N	1 NW							•••••	
		(flush)		2 N & S						
	2d av. N	1 SE 1 SE								
	4th av. N	1 NW		1 N						
	5th av. N 6th av. N	1 SE		1 S						
	7th av. N 8th av. N	1 SE 1 SE		1 37	• • • • • • • • • • • • • • • • • • • •					
	9th av. N	1 SE		1 10						
	10th av. N	1 SE								
	10th av. N 11 av. N estwd 11 av. N. N	1 SE 1 NE								
S 5th st	Hennepin			1 S						
	Half way	$\frac{1}{1}$ SE		1 N	1 S					
	1st av S 2d av S	1 NE								
	6th av S	1 NE 1 SE		1 S	1 N					
	7th av S	1 SE 1 SE								
	8th av S 9th av S	1 SE								
	10th av S	1 SE								
	11th av S 12th av S	1 NE 1 NE	• • • • •	1 N			1 S			• • • • •
		Flush.					1 S			
	13th av S 14th av S	1 SE 1 SE								
	15th av S	1 SE					1 N			
	16th av S Cedar av	1 SE 1 NE	• • • • •				1 W			• • • • •
	19th av S	1 NE								
	20th av S	1 NE 1 NE	• • • • •							
w. 3 (1	21st av S 22d av S	1 NE								
5th av S	S 2d st Wash. av	$\frac{1}{1} \frac{\text{SE}}{\text{NW}}$	• • • • •					1 E		
		1 SW								
	S 3d st	1 NE 1 SW								
	S 4th st	1 SW							1 W	
	S 5th st S 6th st	1 SW 1 SW 1 SW					•••••		• • • • • • • • • •	
	S 7th st	1 SW							******	
	S 8th st S. 9th st	1 SW 1 SE				•••••			2 E & W	
	S. 10th st	1 NW								
	S. 11th st E. Grant st	1 NW 1 SW							2 N & S	• • • • •
	E. 14th st	1 NW								
	E. 15th st E. 16th st	1 NW 1 NW 1 NW 1 NW							1 8	
	E. 17th st	1 NW								
	E. 18th st E. 19th st	1 NW 1 SW					1 S			
	E. Er'nklin av	INW			*1					
	Half way E. 22d st	1 1 NW		• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •				
	Half way	1								
	E. 24th st	Lowry		2 N & S			1 N			
	1st av. N	1 NW		W 74 00 13			* * * * * * * * * * * * *			

*On connection.

Table No. 5-Continued.

STREET OR	Intersecting	nd le	No.	OF GAT	ES AND S	SIDE OF	STREET C	ON WHIC	H SITUA	TED.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
N. 1st st	2d av. N 3d av. N	1 NW 1 SW 1 NE		1 S						
	4th av. N 5th av. N	1 NE		1 0						
	5th av. N 6th av. N	1 SE 1 SE								
	7th av. N	1 SE		1 N						
	N. Bass't's c'k 8th av. N	$\begin{array}{ccc} & 1 \\ & 1 & \text{SE} \end{array}$		1 N						
	9th av. N 10th av. N	1 SE 1 SE								
S. 1st st	Hennepin av.							1 8		
	Nicollet av	1 SW 1 SE								
S First st	1st av S	1 SE 1 NE 1 SW								
	2d av S	1 NE		*1 N						
	2d av S 3d av S 4th av S	1 NE 1 SW								
	5th av S	1 NW								
First av N	S of pump ho. River st	16 W 1 NW								
	N 1st st W's'ngt'n av.		1 E	1 W						
	N 3rd st N 4th st	1 NW *1 NW		\$1 E						
	N 4th st	#1 NW Flush		1 E						
	N 5th st	Flush 1 NW 1 NW 1 NE 1 NW		1 W						
	N 6th st N 7th st	1 NW								
	N 8th st	1 NW		1 E						
	N 9th st	1 NW Lowry		2 E & W	, , , , , , , , , , , , , , , , , , , ,					
	N 11th st N 12th st	Lowry 1 NW 1 NE								
	N 15th st	1 NE								
First av S	1/2 way from 2d st to Wash-									
	ington av		\$1							
	W'sh'gt'n av. S 3d st	1 SE								
	S 4th st	1 SW 1 SW								
	S 5th st S 6th st	1 SW			2 E & W					
	S 7th st S 8th st	$\begin{array}{c c} 1 & \text{SE} \\ 1 & \text{SW} \end{array}$			1 E					
	S 9th st	1 SW		1 E						
	S 10th st S 12th st			1 E	1 E				1 W	7
	S 13th st	1 SE 1 SE								
	E Grant st E 14th st	1 N W		1 S					1 N	i
	E 22d st Half way	1 SW								
	E 24th St	i sw		1 N						
	Half way E 25th st	1		2 N & S						
	Half way	1 1 NW								
	E 26th st Half way E 27th st	1								
	E 27th st Half way	1		2 N & S						
	E 28th st E 29th st	1 NW								
	E 29th st E Lake st		1	2 N & S 2 N & S						
	E 31st st	1 N W 1 N W 1 N W								
	E 32d st E 33d st	1 NW		1 N						
14th av. S	S 1st st S 2d st	1 SW								
	Wash. av	1 SF								
	S 8th st S 9th st	1 SW		1 W						
	angle	1								
	E 18th st	1 NF		outs fro	1	1				

Table No. 5-Continued.

STREET OR	Intersecting	nd lo- n of ants.	No	OF GAT	ES AND S	SIDE OF	STREET (ON WHIC	H SITUAT	red.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
14th av. S	E 19th st E Franklin av E 26th st	1 NE 1 NE		1 N	1 8					
	E 27th s E 28th st E 29th st E Lake st	1 NE 1 NE 1 NE 1 NE			1 N					
E. 14th st	list av. S.	1 80		1 W	1 N				1 E	
	Stevens av 2d av. S 3d av. S Portland av.	1 SE 1 SE 1 SE 1 SE		1 E 1 E					1 W	
	Park av South 10th st.									
	10th av. S 11th av. S	1 SW 1 SW 1 NE 1 NW 1 NW 1 NW		1 W						
W. 14th st N. 4th st	Willow st	1 NE 1 SW		1 N 1 N						
	1st av. N	1 SW 1 SW 1 NW		2 N & S 1 S						
	7th av.N(w'st-	1 SW		1 N						
	Half way 8th av. N 9th av. N	1 SW		*1 1 1 N						
	10th av. N. 11th av. N. 12th av. N.	1 SW 1 SW 1 SW 1 SW								
	Plymouth av.	1 NE 1 SW 1 NE 1 NE		2 N & S						
	14th av. N 15th av. N 16th av. N 17th av. N 18th av. N	1 NE 1 SE 1 SW		1						
	18th av. N Half way 20th av. N	1 SW		1 N						
S. Fourth st	21st av. N Hennepin av.	1 SW 1 SW		1 S	1 S					
	Nicollet av 1st av. S 2d av. S	1 SW 1 NW 1 NW		1 S	1 S					
	3d av. S	1 NE 1 NE 1 NE		1 S 2 N & S						
	6th av. S 7th av. S 8th av. S 9th av. S	1 SW 1 SW 1 SW 1 SW		1 N			1 8			
	10th av. S 11th av. S 12th av. S	1 SW 1 SW 1 SW					1 N	1 8		
	13th av. S 14th av. S 15th av. S	1 SW 1 NW						1 8		
	16th av. S Cedar av Cedar av	1 SW 1 SW 1 SE 1 SW		1						
S 4th st	19th av S 20th av S 21st av S	1 SE 1 SE 1 SE								
Fourth av N	22d av S N 1st st Alley	1 SW		1 W	1 E					
Fourth av S	Wash, av	1 NW		2 E & W						
	S 4th st	1 NW		ste gate i	nto cree	k	·		• • • • • • • • • • • • • • • • • • • •	1

Table No. 5-Continued.

STREET OR	INTERSECTING	nd l	No.	OF GAT	ES AND S	SIDE OF	STREET (N WHIC	H SITUAT	red.
AVENUE OF PIPE.	STREET.	No and lo- cation of hydrants.	4	6	8	10	12	16	24	36
Fourth av S	S 5th st S 6th st	1 NW 1 NW 1 NW		2 E & W						
	S 7th st	1 NW								
	S 8th st S 9th st	$\frac{1}{1}\frac{NW}{NW}$		1 W						
	S 10th st			2 E & W						
	S 11th st E Grant st	1 NE 1 NW 1 NW								
	E 14th st	1 NW								
	E 15th st E 16th st	1 NW 1 NW		1 N						
	E 17th st E 18th st	1 SW 1 NW		is						
	E 19th st	1 NW								
	E Franklin av E 22d st	1 N W 1 N W		2 N & S						
	E 24th st	1 NW		2 N & S						
		1		2 N & S						
Fourth av S	E 25th st. E 26th st. E 32d st.	1 NW								
	E 32d st E 33d st	1 SW 1 NW		1 N				4		
N 14th st E Fr'nklin av.	Hennepin av.			1 N 1 N						
E Fr'nklin av.	Nicollet av 1st av S	1 SE 1 SE			1 E					
		Waters								
	Stevens av 2d av S	1 SE 1 SE								
	3d av S	1 SE		*2 E & W	2 E & W					
	Clinton av 4th av S	1 SE 1 SE								
	5th av S	1 SE								
	Portland av Portland pl	1 SE 1 SE		1 E	1 W					
	Park av	1 SE								
	Park pl Chicago av	1 SE 1 SE								
	Chicago av 9th av S	1 SE			1 W					
	10th av S 11th av S	1 SE 1 SE								
	12th av S	1 SE								
	13th av S 14th av South	1 SE								
	(southward.)	1 SW 1 SE			1 W					
	15th av S Bl'm'ngt'n av	1 SE								
	16th av South (southward.)	1 SE								
	17th av S	1 SE								
	18th av S Cedar av	1 SE 1 SW			1 W					
E. Fr'nklin av	Milw'kee R.R.	1 E			1 E					
	19th av. S Min'haha av.	1 SE		1 E	1 W					
	20th av. S	1 SE								
	21st av. S 22d av. S	1 SE 1 SE								
	22d av. S 23d av. S	1 SE								
	24th av. S Half way	1 SE		1						
777 77 41 74	25th av. S	1 NW								
W.Fr'klin av.	Nicollet av Blaisdell av	1 SE					1 W			
	Lindley av	1 SE					1 E			
	Pleasant av Grand av	1 SE 1 SE					1 E			
	Harriet av	1 SE								
	Garfield av Lyndale av	1 SE 1 SE					1 E			
N.Fremont av	6th av. N Half way 8th av. N			1 N						
	8th av. N	1 sw		2 N & S						
	Half way 11th av. N	1 SW								
	TITUII av. IV	1 1 10 11		*Waste			1	1	,	

Table No. 5-Continued.

STREET OR	Intersecting	No.and lo- cation of hydrants.	No	. OF GAT	ES AND	SIDE OF	STREET (N WHIC	H SITUAT	ED.
AVENUE OF PIPE.	STREET.	No.an catic hydr	4	6	8	10	12	16	24	36
40th av. N 41st av. N	N 2d st	1 SW						1 W		
41st av. N Garfield av	N 2d st N 2d st W 26th st	1 SW						*1		1
Garneta av	Half way	1								
N. Girard av.	W 27th st 5th av. N	1 NW		1 N						
N Girard av.	6th av N Half way	1 SW		2 N & S						
	Half way 8th av N	1 sw		1 1 2						
Grand av	w Fronklin or	1 8 11		18						
	W 22d st W 24th st W Lake st	1 NW		1 NT						
	W Lake st	1 NW 1 SW		$\frac{1}{1}\frac{N}{S}$						
	Hall way	1								
E Grant st	W 31st st	1 NW		1 W						
	3d av S						2 E & W			
Groveland av.	Clifton place. Hennepin av.	1 SE 1 SW				1 W	+1			
	1/3 way	1								
Harmon nlace	13 way Hillside S 12th st	1 1 NE		2 E & W						
Trainion place	S 13th st	1 NE		~ E & W						
	Spruce place. Willow st	1 NE								
	Maple st	1 NE								
TT *	Hennenin av	1 NE		1 E						
Harriet av	W Franklin av	1 NW		18						
	w Franklin av W 22d st W 24th st	1 NW								
	W 25th st W 26th st	1 SW 1 NW			18					
	W 2/th St				2 N & S					
	W 28th St	1 NW 1 NW								
	W 29th st W Lake st	1 18 18			2 N & S					
	W 31st st	1 NW								
	W 32d st W 33d st	1 NW 1 NW			1 8					
Hawthorn av.	IN JUED ST	1 NE 1 NW					,	1 E		
		1 N W						1 E	1 W	
	N 13th st	1 SE								
	N 15th st N 16th st	1 NE							1 E	
	N 17th st	1 NE 1 NE		4 777						
	Lyndale av Aldrich av	$\begin{array}{ccc} 1 & \mathrm{SW} \\ 1 & \mathrm{SW} \end{array}$		1 W					1 E	
II.	Bryant av	1 SE			2 E					
Hennepin av.	N ist st				1 W		1 E			
	N 2d st	1 Lowry			2 E&W					
	Wash. av N 3d st	1 NW			*1 W					
	N 4th st	1 NW								
	N 5th st N 6th st	1 NW 1 NE 1 NW			1 E					
	N 7th st	1 NW			1 E					
	N 8th st N 9th st N 10th st	1 NW								
	TI TOOL DOTTOR	1 NE 1 NW			1 W					
	N 11th st	1 NW			2 F& W					
	N 13th st	1 NW								
	N 14th st N 15th st	1 NE 1 NE								
	N 16th st	1 NE			1 E					
	Erie av Harmon place	1 SW 1 NW					l			
	Huron av						1			
	Superior av	1 N W 1 N W					·			
	Oak Grove st. Lyndale av	81 E			1 8					
*On aida at la		+D		**		7 1 1		400		

STREET OR	Intersecting	nd le	No	OF GAT	ES AND	SIDE OF	STREET (ON WHIC	H SITUA'	TED.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	. 10	12	16	24	36
Hennepin av.	Groveland av									
	(Between) Summit av	1 NW					1			
	Lincoln av	1 NW								
	Half way w Franklin av	1 1 NW					1 S			
	Half way W 22d st	1								
	W 22d st Half way	1 NW								
	W 24th st	1 NW					2 N & S			
	Half way W 25th st	1 1 NW								
	Half way	1								
	W 26th st Half way	1 NW					1 S			
	W 27th st	1 NW								
	Half way W 28th st	1 NW								
	Half way	1 "								
	N of R R						1 N			
	S of R R (At 29th st) Half way	1 NW					1 S			
	Half way W Lake st	$\frac{1}{1}$ SW					2 N & S			
	1/2 way Lake	1 5 11					~ 11 00 0			
	to 31st st W 31st st	1 NW								
	Half way	1 NW								
	W 32d st	1 NW					1 N			
	Half way W 33d st	1 NW								
Hiawatha av.	E 24th st	1 SW			1 S					
	W 33d st. E 24th st. E 25th st. E 25½ st.	1 SW 1 SW								1::::
	E 26th St	1 SW			2 N & S					
	E 27th st E 28th st	1 SW 1 NW								
	E 29th st	1 NW								
Highland av .	E Lake st near lot 6, b 4.	1			1 N	1				
	Royalston av.	î		1 W						
	near lot 16, b 4 near lot 15, b 2	1 1								
*****	Lyndale av	1 VF		1 E						
Hillside place	Groveland av Mt. Curve av.	1 SW 1 NW 1 NW				18				
N Humb'dtav	5th av N	1 NW								
N Irving av	6th av N Western av	1 SW		1 N						
It II ting at	4th av N	1 SW 1 SW								
	5th av N 6th av N	1 SW 1 SW		1 S						
	8th av N Oak Park plac			$1 \tilde{N}$						
N. Irving av	Oak Park plac	1 SW		1 N			•• ••••			
	21st av. N	1 SW								
N. James av	Wetsern av	1 SW	 	1 N						
	4th av. N 5th av. N	1 SW								
	6th av. N Half way	1		1 N		1				
	Thomas place 8th av. N	1 NW								
Kenwood B	8th av. N Douglass av	1 SW 2 W.side		1 S		1 8				
Menwood B	Penn av Sheridan av	1 NE 1 NW								
	Oncon or	1 NIW				1 8				
	Al'y in line of W Fr'klin av W 21st St W 22d st Lake of the	1 14 11								
	W Fr'klin av	1 NW 1 NW 1 NW				1 N				
	W 22d st	1 NW								
	Lake of the Isles boulev	1 37337								
N. Knox av	10th av. N	1 SW		1 N						
	Allev	1 NW								
Triba av.,	Alley	1 NW 1 SW 1 NW 1 SW		1.1						

Table No. 5-Continued.

STREET OR	Intersecting	n of ants.	No	OF GAT	ES AND S	SIDE OF	STREET O	N WHIC	H SITUAT	red.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
N. Knox av	Half way to									
E. Lake st	Plymouth Nicollet av	1 NE					1 E			
	1st av. S Stevens av	1 NE 1 NE 1 NE								
	2d av. S 3d av. S	1 NE					1 W			
	9th av. S	1 NW					. 1 W			
	Hiawatha av.	1 NE								1.,
T. T 1 4	Snelling av Minneh'ha av 27th av S Blaisdell av	1 NE					1 W			
E Lake st	27th av S	1 NW								
W Lake st	Blaisdell av	1 NE					• • • • • • • • • • • • • • • • • • • •			
	Lindley av Pleasant av	1 NE					1 E			1
	Grand av Harriet av	1 NE								
	Garfield av Lyndale av	1 NE					9 F & W			1
	Aldrich av	1 NE								
	Bryant av	1 NE								
	Dupont av Emerson av	1 NE					1 E			
	Fremont av	1 NE								
	Gtrard av Hennepin av.	1 NE					1 E			
Laurel av	N 15th st N 16th st N 17th st	1 NE		1 W						
	N 17th st	1 NE								
	Lyndale av	1 NE		2 E & W	· · · · · · · · · · ·					
	Bryant av	1 NE								
Linden av	Bryant av Colfax av N 12th st N 13th st N 15th st N 16th st N 17th st L yndele ov	1 NE		1 E 1 W						
	N 13th st	1 NE								
	N 16th st	1 NE								
Linden av	Lyndale av	1 NE 1 NE		2 E & W						
Lindley av	Lyndale av Aldrich av	1 NE 1 SW		1 4						
matey av	W Lake st Half way	1								
	Half way	1 NW								
N Logan av	W 32d st 8th av N Half way	1 NW		1 N 1 N						
n Bogan av	Half way	1		1 1						
	Holf wow	1 SW								
	12th av N Half way	1 SW		1 8						
	Plymouth av.	1 SW								
N Lyndale av	Superior av Huron av	1 NW 1 NW							1 N	
	Erie av	1 SW								
	Ontario av Laurel av	1 SW							1 N	
	Hawthorn av Chestnut av	1 SW						1 N		
	Het av N	1 SW						1 8		
	Western av 3d av N	1 SW 1 SW						1 N		
	3d av N 4th av N 5th av N	1 SW 1 SW						1 8		
	7th av N	1 SW						1.8		
	8th av N	1 SW						1 N		
	11th av N ½ w'y 11 av. N to 12th av. N	1				-		. 0	1	1
	Izun av. N	1 SW								
	Plymouth av.	1 SW 1 SW						2 N & S		
	15th av. N 16th av. N	1 SW						W 74 66 13	1	1

STREET OR	Intersecting	nd lc on of	No	OF GAT	ES AND S	IDE OF S	TREET C	N WHICE	I SITUAT	ED.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
V Lyndale av	17th av. N	1 SW 1 SW						1 S		
	18th av. N Half way	1								
	20th av. N	$\begin{array}{ccc} 1 & \mathrm{SW} \\ 1 & \mathrm{SW} \end{array}$						1 N		
	20th av. N 21st av. N 22d av. N 23d av. N	1 SW								
	23d av. N	$^{1}_{1}\stackrel{\mathrm{SW}}{\mathrm{SW}}$						1 N		
	24th av. N 25th av. N	1 SW								
	26th av. N 27th av. N	1 SW 1 SW 1 SW 1 SW							2 N & S	
x 2 2	29th av. N Superior av Vineland av	1 SW						1 S		
Lyndale av.	Vineland av	1 N W							1 8	
	Groveland av	1 SW							1 8	
	Summit av Lincoln av	1 N W 1 N W								
	W Fr'nklin av W 22d st	1 NW		*1					2 N & S	
	W 24th st	1 SW							1 N	
	Half way W 25th st	1 1 NW							2 N & S	
	W 26th st	1 NW						*******		
	W 27th st W 28th st	1 NW			18				1 N	1
	Half way	1								
	R R tracks W 29th st	1 NW			1 N					
	Half way W Lake st	1			0.37.0.0					
	W Lake st Half way	1			2 N & S	.,				
	W 31st st	1 NW								
	Half way W 32d st	1 NW			1 N					
linnehahaav	Cedar av	1 NE								
	E Franklin av 20th av S	1 NE					18			
	22d av S	1 SE 1 SE								
	23d av S 24th av S	1 SE								
	25th av S E 26th st	1 SE 1 NE					1 N			
Morgan av.	western av			1 N						
It. Curve av.	4th av N Emerson av	1 SW								• • •
ii. Cui ve av.	Fremont av	1 SW					1 W			.
	Girard av Humboldt av.	1 SE 1 SE					•••••			
	Irving av	1 SE				1 E				.
	James av Knov av	1 SE 1 SE								
	Logan av	1 SE				4 70				
icollet av	Newton av S 1st st	1 SE		1 W		1 E				
	S 2d st Wash. av	1 SW			1					
	S 3d st	1 SE 1 Lowry		2 E & W						
		4in pipe		1 E						
	S 4th st S 5th st	4in pipe 1 NE 1 NE 1 NW		1 W						
	S 4th st S 5th st S 6th st S 7th st S 8th st S 9th st S 10th st	1 NW 1 NW	,	2 E & W	1					
	S 8th st	1 NE		1 W						.
	S 9th st S 10th st	1 NW		2 E & W	,					
	S 11th st	1 NW								
	S 12th st S 13th st	1 NW 1 NW	7	2 E & W						
	W Grant st	1 SW	7							
	W 14th st W 15th st	1 1/1 //								
	Oak Grove st.	1 1 1 1 1								
	W 18th st W 19th st	1 NW	7	1 N 2 N & S						
	w Franklin av	INW	7	2 N & S	3	1				

Table No. 5-Continued.

STREET OR	INTERSECTING	nd l	No	OF GAT	ES AND	SIDE OF	STREET (ON WHIC	H SITUAT	FED
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
Nicollet av	Half way	1								
	W 22d st Half way	1 NW								
	W 24th st	1 SW 1 NW 1 NW		1 N						
	W 25th st	1 NW								
	W 26th st W 27th st	1 NW		2 N & S						
	W 28th st	1 NW 1 NW								
	W 29th st	1 NW		4 37	4 (1					
	W Lake st Half way	1 NW		1 N	15					
	W 31st st	1 NW								
	Half way W 32d st	1 27117			1 37					
E 19th st	15th av S	1 NW 1 SE.		1 E	1 N					
	16th av S	1 SW		1 12						
W 19th st	Lindley av	1 SE.								
9th av S	S 5th st	1 SW 1 SE. 1 SW 1 NW		1 S						
	S 7th St	1 N W								
T 041	S 8th st	1 N W								
V 9th st	Hawthorn av. 1st av N	1 NW						1 8		
	Western av	1 SW						1 13		
9th st	Hennepin av.			18						
	Mary place Nicollet av	1 SW		1.0						
	1st av S	1 NE		18				1		
	1st av S 2d av S	1 SE		1 N						
	3d av S	1 SE							į	.
	5th av S	1 SE 1 NE		2 N & S					1	.
	6th av S	1 NE 1 SE			1					
	11th av S			1 S			·		1	3
th av S	12th av S E 14th st	1 SE			1 S					
un a + b	E 15th st	1 NW			1 15				1	
	E 16th st	1 NW 1 NW		,						
	E 17th st E 18th st	1 NW			1 S	• • • • • • • • • • • • • • • • • • • •				
	E 19th st	1 NW 1 NW								
	EFr'nklin av.			1 S	1 N				1	.
	E 21st st E 22d st	1 NW 1 NW								.
	E 24th st	1 14 W		1 S						.
	E Zoth St	1 NW								
	E 28th st	4 603037		1 S						
	E 29th st E Lake st	1 SW		1 N			• • • • • • • • • • • • • • • • • • • •			
oak Grove st.	Nicollet av Vine place			$1 \hat{W}$						
	Vine place	1 SW								
	Near lot C	1 SW								
	Spruce place. Near lot C Near lot E	î		1					,	
	Near lot G. or	1								
	angle N'r Johnson's	1								.
	Lake	1								.
ak Lake av.	Hennepin av.	1 SW		1 E						
ak Lake av.	Hennepin av. 6th av. N 17th av. N	1 SW		1. N					1	.
akst	Marshall st								1	
ark av	S. 10th st	1 SW								
	E 14th st	Waters	,	2 N & S						
	E 15th st	1 NW		214 66 15						
	E 16th st	1 N W 1 N W 1 N W								
	E 17th st E 18th st	1 NW		1 8						
	E 19th st	INW								
	E Franklin av	1 SW		2 N & S						
	Half way E 22d st	1 1 NW								
	Half way	1 NW	1				* * * * * * * * * * * * * * * * * * * *			
	E 24th st E 25th st									

Table No. 5-Continued.

	INTERSECTING	nd on ran	NO.	OF GAT	ES AND S	SIDE OF	STREET C	ON WHICH	H SITUAT	ED.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
Park av	E 26th st	1 NW (waters)		1 N						
	Half way E 27th st	$\frac{1}{1}$ NW		2 N & S						
	E 28th st	1 NW								
	E 29th st E Lake st	1 NW *1 NW 1 NW		*1 N 1 N						
Pleasant av	W ZIER SE	1 SW		1 10	1 S					
	W 25th St	1 SW 1 NW								
	W 26th st W 27th st	1 SW 1 NW			1 S					
	W 281/H Shares	1 NW			1 S					
	W 29th st W 2014 et	1 N W 1 N W						• • • • • • • • • • • • • • • • • • • •		
	W 29½ st W Lake st	1 SW 1 NW			1 S					
	W 31st st	1 NW			1 6					
	W 32d st W 33d st	1 NW 1 NW 1 W			1 S					
Plymouth av.	River bank N 1st st	1 W		1 W						
	N 1st st N 2d st	1 NW 1 NW			1 E			1 W		
	Wash. av	1 NW						- 1 W		
	N 3d st N. 5th st	1 NW 1 NW						1 W		
	N 6th st	1 NW				1 W				
Donath and are	Lyndale av	1 NE			1 E					
Portland av	E 14th st E 15th st	1 SW 1 SW								
	E 16th st	1 SW					1			
	E 17th st E 18th st	1 SW 1 SW				.,				
	E 19th st	1 SW								
	EFF nkiin av.						2 N & S			
	E 22d st E 24th st	1 NW					1 N			
	E 25th st	1 SW 1 NW								.
	E 26th st E 27th st	1 N W 1 N W					2 N & S			
	E 28th st	1 NW								
	E 29th st E Lake st	1 NW 1 SW			18		1 N			
	E 31st st	1 NW								
	E 32d st E 33d st	1 NW								
Queen av	Kenwo'd b'v'd	1 NW		1 8	1 N					
	All'v in line of	2								
	Franklin av W 21st st	1 NW 1 NW 1 SW								
Ridgewood av	Lindley av	1 SW								
		Water.								
	First angle Pleasant av	1 SW			2 E & W					
	Third way	. 1								
	2-thirds way Lyndale av	1 SE			1 F					
Riverside av	21st av S 22d av S	1 NE 1 NE						1 F		
	22d av S 23d av S	1 NE						. 1 1		
	24th av S	1 NE						j W		
Powelston ev	25th av S Western av N							. J W	/	
noyaiston av.	of 12th st			1 N						
	R R bridge				[
	Holden st Hoag av	1 NW 1 SF								
	Highland av.	. 1 NE		. 1 N	[]					
N 2d st	Valley av	. 1		1 F						
at wit St	Hennepin av 1st av N 2d av N	1 SW								
	2d av N	I NW	,					2 N & S	à	
	Plymouth av	1 8 1	7 I					2 N &	š	
	14th av N 15th av N 16th av N		7							
	16th av N	. 1 SW	()	1						

Table No. 5—Continued.

Conner or	Tarman or one and	d lo- n of ints.	No	OF GAT	ES AND S	Side or	STREET C	N WHICH	H SITUAT	ED.
AVENUE OF PIPE.	Intersecting Street.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
N. 2d st	18th av N 19th av N	1 SW 1 SW 1 SW								
	20th av N	1 SW						i S	1 N	
	24th av N									1
	31st av N 37th av N									1 1
3 2d st	41st av N 1st av S 2d av S	1 NW		*1 N						1
zu st	2d av S	i SE								
	3d av S 5th av S	1 SE 1 SE 1 NE 1 NE		1 S						
	6th av S	1 NE 1 NE						2 N & S		
	7th av S 8th av S	1 SE 1 NE 1 NE						i s		
	9th av S	1 NE 1 NE								
	10th av S 11th av S	INE						1 N		
d av N	N. 2d st Wash. av	1 NW 1 NW 1 NE 1 NW 1 NW 1 NE 1 SW			+1					
	Wash. av N 3d st	1 NW						2 E & W		1:::
	N 4th st	1 NE								
	N 5th st N 6th st	1 NW						1 W		
	N 7th st	1 NE								
d av S	S 1st st Wash. av	1 SW	1	2 E & W						
	S 3d st	1 SW		J2 E & W						
	S 4th st S 5th st	1 SW		1 W 2 E & W						
	S 6th st	1 SW		2 E & W						
	S 7th st	1 SW 1 SW 1 SW		1 W						
	S 6th st S 7th st S 8th st S 9th st	1 SW	, , , , ,				1		1	1
		L'Iusi		2 E & W					·····	
	S 10th st S 11th st	1 SW								
	S 12th st S 13th st	1 SW		2 N & S						
	E Grant st.	1 SW	7	1 1 5						. ::
	E 14th st E 15th st	1 N W	,	. 2 N & S	3	.,				
	E 16th st	1 NW		1 8						
	E 17th st E 18th st	1 NW 1 NW			8					
	E Franklin av			1 8	3					
	E 22d st	1 NW Waters								
	E 25th st E 26th st	1 SW		1 8	3					: ::
	E 26th st E 27th st	. 1 SW		. 2 N & S						
	Half way	1								.
	Half way E 28th st E Lake st	1 NW	7	1 5						
	Half way	. 1								
	HE Rich of	INV	/							-
	Half way E 32d st Half way	1 NW	/ · · · ·							. ::
	Half way	1 1 NV	, · · · ·	1.5	j					.
E 17th st		. 1 SI	3							
	Half way Park av	1 9	₹	. 1 W	;					
7 av S	. EFranklin a	v INV			. 1	ġ				
	E Franklin a E 22d st E 24th st	1 NV	v · · · ·							:
	E zoth St	. I IN Y	V		2 N &	$\dot{\mathbf{s}} \ldots\ldots$.]			
	Half wav	INV	v · · · ·	• • • • • • • • • • • • • • • • • • • •						
	E 26th st E 27th st	1 NV	V		2 N & S	s				
S 7th st			V		. 1					
	Hennepin av Half way Nicollet av 1st av S 2d av S	. 1 Lowr	y							
	Nicollet av	1 81	0		1 1					

· STREET OR ,	Intersecting	nd lo- n of ants.	No	o of Gat	ES AND	SIDE OF	STREET (ON WHIC	H SITUA	TED.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
S 7th st	3d av S 4th av S 5th av S	1 NE 1 NE 1 NE			1 N 2 N & S 2 N & S					
	6th av S 7th av S 8th av S	1 SE 1 SE			2 N & S					
	9th av S 10th av S 11th av S	1 SE 1 NE 1 SE			1 S					
	12th av S 13th av S	1 SE 1 SE			1 S					
	14th av S 15th av S 20th av S	1 NE		1 E	1 N					
7th av N	21st av S 25th av S Wash. av	1 NW		1 1 W						
	N 3d st N 4th st N 5th st	1 NW 1 NE		2 E & W 1 E 1 W						
	N 6th st Hoag av Bradford av	1 NW 1 NE 1 NE								
7th av S	Wash. av S 3d st S 6th st	1 NE 1 NE 1 NW 1 NW 1 NW		1 W						
	S 7th st S 8th st S 9th st	1 NE 1 NE		2 E & W						
S Sheridan av.	S 10th st	1 NE		1 E 1 W		,				
	to east W Fr'nklin av W 21st st	1 SW 1 NW 1 SE								
16th av N	N 5th st N 6th st Lyndale av	1 NE		2 E & W						
	Aldrich av Bryant av	1 NE 1 NE Waters.								
16th av S	Dupont av Emerson av	1 NE 1 NE		1 E 1 W						
10th av 5	S 8th st S 9th st E 18th st	1 NE 1 NW								
	E 19th st	Flush 1 N W Flush		0. NT %- CI						
77.043	E Fr'nklin av Half way E 22d st	1 NW 1 1 NW		2 N & S						
N 6th st	Hennepin av 1st av N	1 SE 1 SE		1 N						
	Plymouth av 14th av N 15th av N	1 SE 1 SW 1 SW		2 N & S 2 N & S						
S 6th st	Hennepin av. Half way Nicollet av	1 SW 1 SE 1		1 S						
	Alley	1 SE 1 NE 1 NE 1 NE		1 N		1 S				
	3d av S 4th av S	1 SE				1 N 1 N	1 S			
	5th av S 6th av S 8th av S	1 NE 1 NE 1 SE					2 N & S			
	9th av S 10th av S 11th av S	1 SE 1 SE 1 SE					1 S			
	12th av S 13th av S 14th av S	1 SE 1 SE 1 SE					1 N			

Table No. 5-Continued.

STREET OR	Intersecting	nd le	No	OF GAT	ES AND	SIDE OF	STREET (ON WHIC	H SITUA	TED
AVENUE OF PIPE.	STREET.	No.and lo- eation of hydrants.	4	6	8	10	12	16	24	3
S 6th st	15th av S	1 SE 1 SE								
	16th av S	1 SE					1 0			
	17th av S Cedar av	1 SE 1 NW					1 8			
th av N	Wash'gton av	1 14 14			1 W					
	N 3d st	1 SE			2 E & W					
	N 4th st				1 E					
	N 5th st	1 SE		2 E & W						
	N 6th st	1 NE 1 NE			• • • • • • • • •					
	Hoag av Bradford av	1 NE					•••			
	Oak Lake av	1 NE								
	Lyndale av	1 NE		2 E&W 1 W						
	Aldrich av	1 NE		1 W						
	Bryant av	1 NE 1 NW								
	Dupont av Emerson av	1 NW 1 NE		1 W						
	Fremont av	1 NE		1 44						
	Girard av	1 NE								
	Humboldt av.	1 NE 1 NE		2 E&W						
	150ft.w. of w. l.	4 4 KO 01 TTT								
	of Elwood av	1150ft W							• • • • • • • • •	
h av S	James av	1 150ft E 1 N W					1 W			
(1 1 10	S 2d st	T 74 AA					1 W			
	Wash. av	1 Lowry					2 E&W			
	S 30 st	1 NW								
	S 4th st	1 NW 1 NW 1 NW								
	85th st	1 N W					4 337			
	S 6th at	(Flush)					2 E&W			ļ.,
	S 6th st S 7th st	INW					2 E&W 1 W	,		
	S 8th st	1 NW 1 NW 1 NW					1 ",			
		(Flush)		1						
	S 9th st	1 NW (Flush)								
	0.4041	(Flush)								
pruce place	S 10th st W 14th st	1 NE 1 SW 1 NW 1 SW 1 NW 1 NW		1 S						
n dee prace	W 15th st.	1 NW		10						
evens av	W 15th st E Grant st	1 NW 1 SW		18						
	E 14th st	1 NW 1 NW		2 N & S						
	E 15th st	1 NW	. ,							
	E 16th st E 17th st	1 NW 1 NW 1 NW								
	E 17th st E 18th st	INW		1 N						
	E 19th st	1 NW 1 NW								
	E Franklin av	1,1111		2 N & S						
	Half way	1								
	E 22nd st	1 NW								
	E 24th st		,	2 N & S						
	E 25th st	1 NW		18						
	Half way E 26th st	1 NW								
	Half way	1 1 1								
	E 27th st			2 N & S						
	Half way	1								
	E 28th st	1 NW								
	Half way	1 NW								
	Half way	1 1 1								
	Half way E Lake st	1 SW		2 N & S						1::
	Half way	1								
	E 31st st	1 NW								
	Half way	1 NIW		4 /4						
	E 32d st Half way	1 NW		18						
	E 33d st	1 NW								
10th st	Hennepin av.			1 N						
	Hawthorn av	1 NW		2 N & S						
m	lst av N	1 Lowry		18						
Tenth st	Hennepin av.	1 3773			18					
	Mary place Nicollet av	INE			1 (1					
	1st av S	1 NE 1 NE			18					
	2d av S	1 NW			2 N & S 2 N & S					
	3d av S	1 NE		1	2 N & S					

STREET OR AVENUE OF	INTERSECTING STREET.	ion		1	1	1	1	1	1	
PIPE.		No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
S Tenth st	4th av S	1 NE 1 NE			*1					
	5th av S 6th av S	1 NE 1 SE			1 N					
	7th av S	1 SE			1 14		1 15			
	8th av S	1 SE					1 W			
0th av N	Chicago av Logan av	1 NE		1 E			1 11			
0th av N 0th av S	River bank	1 W		1 W						
	S 2d st E 14th st			1 E						
	E 15th st	1 NW								
	E 16th st E 17th st	1 NW 1 NW 1 NW 1 NW 1 NW		1 S						
	E 18th st	1 NW								
	E 19th st E Franklin av	1 N W		1 N						
N Third st	lst av N 2d av N	1 SE 1 SE								
	2d av N	1 SE 1 SE						2 N & S		
	4th av N	INE								
	5th av N	1 SE 1 SE						1 N		
	6th av N	1 NE						- 1 N		
	7th av N Bassett's cr'k.	1 SE		41				2 N & S		
	8th av N	1 SE						211003		
	9th av N	1 SE 1 SE								
	10th av N 12th av N	$\begin{array}{ccc} 1 & \mathrm{SE} \\ 1 & \mathrm{SE} \end{array}$						1 N		
Thind at	Plymouth av.	1 SE						1 S		
Third st	Hennepin av Nicollet av	$1 \text{ SW} \\ 1 \text{ NW}$	18					· 1 S		
	1st av S	1 SW								
	½wy.to 2d av . 3d av S	1 1 NW						1	• • • • • • • • •	
	4th av S	1 NW							1 N	
	5th av S 6th av S	1 SW		1 S	#1					
	7th av S	1 SW								
	8th av S	1 SW		1 S						
	9th av S	1 SW 1 SW								
	11th av S	1 SW		2 N & S						
	12th av S	1 SW 1 SW								
	14th av S	1 NW		1 N						
	15th av S Cedarav	1 SW 1 SW		1 E						
Third av N	N 2d st	1 SW		1 W.						
	Wash. av	1 SE		$^{1}_{1}$ $^{\mathrm{E}}_{\mathrm{W}}$						
	N 3d st	$1\mathrm{NW}$								
	N 4th st N 5th st N 6th st	1 NE 1 NW 1 NE		1 W						
	N 6th st	1 NE		1 11						
Third av S	1½ way 3d to 4th									
	S 4th st	$\frac{1}{1}\frac{NW}{NW}$								
	S 5th st	1 NW							OT C W	
	S 6th st	1 NW 1 NW							2 E & W	
	S 8th st	1 NW		, .						
	S 9th st	$rac{1}{1}rac{NW}{NW}$						~	2 E & W	
	S 11th st	1 NE								
	S 12th st E Grant st	$rac{1}{1}rac{ ext{NE}}{ ext{NW}}$								
	E 14th st	1 NW							2 N & S	
	E 15th st	1 NW 1 NW								
	E 16th st	1 N W 1 N W							1 S	
	E 18th st	$1 \mathrm{NW}$								
	E 19th st E Franklin av	$\frac{1}{1}\frac{NW}{NW}$							2 N & S	
	E 22d st	$1 \mathrm{NW}$							2 N & S	
	E 25th st	1 NW					nnecting			

Table No. 5-Continued.

Connection	Tympucanomics	d lo-	No	. OF GAT	ES AND	SIDE OF	STREET (ON WHIC	H SITUA	TED.
STREET OR AVENUE OF PIPE.	Intersecting Street.	No.and lo- eation of hydrants.	4	6	8	10	12	16	24	36
Third av S	E 26th st	1 NW								
	Half way E 27th st	1 NW							2 N & S	
	Half way	1								
	E 28th st	1 NW			• • • • • • • •					
	Half way E 29th st	INW								
	Half way	1							9 N 8- C	
	E Lake st E 31st st	1 NW							2 N & S	,
	E 32d st	1 NW 1 NW 1 NW							0 N C C	
	E 33d st Half way	1 N W							2 N & S	
	E 34th st	1 NW								
	Half way E 35th st	1 1 NW							18	
	Half way	1								
	E 36th st	1 NW								
	Half way E 37th st	INW								
	Half way	1							9 NT 8 61	
S 13th st	E 38th st	1 NW		1 N			1 S		2 N & S	
	20 av S						1 S			
13th av S	Wash. av S 3d st	1 NE			1 W					
	S 4th st	1 NW			1 W					
	S 5th st	1 NW 1 NW	····		2 E & W					
	S 6th st S 7th st	1 NE 1 NW 1 NW 1 NW 1 NW 1 NW			Z E CC VV					
	S 8th st	1 NW			1 W					
	S 9th st E 17th st	1 NW 1 SW								
	E 18th st	1 NW			1 N					
	E 19th st E Franklin av	1 SW 1 NW 1 NW 1 NW			1 N	****				
$\begin{array}{c} 30 th \ av \ N. \dots \\ 31 st \ av \ N. \dots \end{array}$	N 2d st N 2d st	1 NW 1 NW		1 W						
31st av N E 31st st	N 2d st 3d av S	1 NW		1 W						
E 51St St	Clinton av	1 SW		1 E						
32d av N	N 2d st	1 NW		4 337			1 E		1 W	
W 32d st	Blaisdell av Lindley av	1 SE		1 W						
75 F 00	Pleasant av			1 E						
33d av N E 33d st	N 2d st 3d av S	$1 \text{ NW} \\ 1 \text{ SE}$		1 W			1 E			
11 300 50	Clinton av	1 SE								
	4th av S 5th av S	1 SE 1 SE							• • • • • • • • • • • • • • • • • • • •	
	Portland av						1 W			
34th av N 35th av N	N 2d st N 2d st	1 SW 1 NW		i w	1 W					
36th av N	N 20 St				1 E		1 W			
37th av N 38th av N	N 2d st N 2d st	1 N W 1 N W		1 W	4 337					
39th av N	N 2d st	1 NW		2 E & W	T 44					
Thomas place	James av			1 W						
	E line of alley Logan av	1 NE		• • • • • • • • • • • • • • • • • • • •						
N 12th st	Hawthorn av	1 NE 1 NW		1 N					18	
	Half way	1 SW								
	Linden av			1 N						
S 12th st	Hennepin av. Harmon place	1 SW 1 SW 1 NW 1 SW								
	Yale place	1 NW							1 N	
	Mary place Nicollet av	1 SW								
	1st av S	1 SW 1 NW		18					1 N	
	2d av S			î S						
12th av N	3d av S Emerson av	1 SW		1 W						
	Fremont av	1 NE 1 NE								
12th av S	Girard av E 24th st	INE			18					
	E 24th st E 25th st	1 NW								
-17										

STREET OR AVENUE OF	Intersecting Street.	ond on ran		OF GAI	ES AND	SIDE OF) WHIC	n Sirux	TED.
PIPE.	SIREEI.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
12th av S	E 26th st	1 NW			1 N				1 W	
20th av N	River bank Pacific st	1 NE							1 W	
	N 1st st	LNE								
	N 2d st	1 NE 1 NE			2 E & W			1 W	1 E	
	Wash'gton av N 3d st	1 NE			2 E & W					
	N 4th st	1 NE								
	N 6th st Lyndale av	1 NE 1 NE			2 E&W					
	Aldrich av	1 NE			2 E&W 1 W					
	Bryant av	1 NE 1 NE								
	Dupont av Emerson av									1:::
	Fremont av	1 NE			1 W					
	Girard av Irving av	1 NE 1 NE								
	James av	1 NE			1 E					
20th av 8	21st av S	1 SW 1 NW								
	S 1st st S 2d st	1 NW 1 NW						 		
	Wash av	1 NW		1 N 1 S						
	S 5th st S 6th st	1 SW 1 NW		1 S						
	S 7th st	1 NW								1:::
	S 8th st	1 NW		1 N						
	S 9th st	1 NW		1 N						
21st av N	E Fr'nklin av. N 2d st	1 NW		2 E & W						
21st av S	S 5th st	1 SW		1 N	,					
		$1\mathrm{NW}$		1 N	2 E&W					
22d av N 22d av S	N 2d st Riverside av.				1 S					
	S 7th St	1 NW								
	S 8th st S 9th st	1 NW 1 NW								1
	E Fr'nklin av.	$1 \mathrm{NW}$			1 N					
E 22d st	25th av S 26th av S	$\begin{array}{ccc} 1 & \mathrm{SE} \\ 1 & \mathrm{SE} \end{array}$		2 E & W						
	27th av S	i SE								1
W 22d st	Kenw'd boul			i W						
99d av N	Sheridan av	$rac{1}{1} rac{ ext{SE}}{ ext{NW}}$		2 E & W						
23d av N 24th av N	N 2d st N 2d st	1 NW		1 W						
E 24th st	Nicollet av 1st av S	1 NE 1 NE		I L						
	Stevens av	1 NE 1 NE								
	2d av S	1 NE								
	3d av S Clinton av	1 NE 1 NE		1 W						
	5th av S	INE								
	Portland av	$\begin{array}{ccc} 1 & \mathrm{SE} \\ 1 & \mathrm{SE} \end{array}$		1 W						
	Portland plac	$\begin{array}{ccc} 1 & \mathrm{SE} \\ 1 & \mathrm{SE} \end{array}$								1:::
	Park av Chicago av	1 SE								
	9th av S 10th av S	$\begin{array}{ccc} 1 & \mathrm{SE} \\ 1 & \mathrm{SE} \end{array}$								
	11th av S	1 SE			2 E&W					
	112th av S	1 SE								
	13th av S 14th av S	$\begin{array}{cc} 1 & \mathrm{SE} \\ 1 & \mathrm{SW} \end{array}$								
	15th av S	1 SE			1 E					
	Bloomgton av	1 SE								
	16th av S 17th av S	1 SE								
	18th av S	1 SE			2 E&W					
W 04th of	Cedar av	1 SE 1 SE			2 E&W					
W 24th st	Grand av Hennepin av.			1 W						
	Emerson av	1 SW								
	Fremont avGirard av	1 SE 1 SE								
	Humboldt av.	1 SE								
	Irving av N 2d st Riverside av.	1 97								
MIGHT DAY	IN 20 ST.	1 NW		1 W						1

Table No. 5-Continued.

STREET OR	INTERSECTING	nd		01 0111		IDE OF S		1	1	ED.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
25th av S	S 9th st E Franklin av	1 NW 1 NW		2 N & S						
E 25th st	E 22d st Nicollet av	$1 \text{ NW} \\ 1 \text{ SE}$		1 E						
	1st av S Stevens av	1 SE 1 SE								
	2d av S	1 SE		O TO O MY						
	3d av S Clinton av	1 SE 1 SE		2 E & W						
	4th av S 5th av S	1 SE 1 SE		2 E & W						
	Portland av	1 SW		2 E & W 1 W	1 E					
	Minn'haha av 23d av S	1 SE			1 E					
	24th av S 25th av S	1 SE 1 SE			1 E					
	26th av S	1 SE			2 E & W					
	27th av S 28th av S	1 SE			2 E & W					
26th av N	29th av S N 2d st	1 SW 1 NW			1 E		1 W			
	N 2d st W'shingt'n av	1 NE					1 W			
	W'shingt'n av N 3d st N 4th st	1 NE								
	N 6th st Lyndale av	1 NE					2 E & W			
E 26th st	12th av S 13th av S	1 SE 1 SE								
	14th av S	1 SW								
	15th av S Bloomg'tn av	$\begin{array}{c c} 1 & \text{SE} \\ 1 & \text{SE} \end{array}$					1 E			
	16th av S	1 SE 1 SE								
	17th av S 18th av S	1 SE								
27th av N	Cedar av N 2d st	1 NW		1 W			1 W			
27th av N 27th av S	N 2d st E 25th st E 26th st	1 N.W			18					
	E 27th st	1 NW 1 NW 1 NW 1 NW				1		.	·	
	E 28th st E 29th st	1 N W 1 N W			18					
W 27th st	E Lake st Nicollet av	1 SE			1 N		1 E			
W 2011 St	1st av S	1 SE								
	Stevens av 2d av S	1 SE 1 SE								
	3d av S Clinton av	1 SE 1 SE					2 E & W			
	4th av S	1 SE								:
	5th av S Portland av	1 SE 1 SE					2E&W	-		: : : :
E 27th st	Blaisdell av	1 SE 1 SE								
	Lindley av Pleasant av	1 SE					1 E	Ē		
	Grand av Harriet av	1 SE 1 SE								:
	Garfield av Lyndale av	1 SE					1 F			
	Aldrich av	i SE								
	Bryant av Colfax av	1 SE								: : : :
W 27th st	Dupont av Emerson av	1 SF					1 E	3		
	Fremont av	1 SE								
	Girard av Hennepin av.	1 SF					1 F	ġ		
28th av N E 28th st	N 2d st Chicago av	1 NW		2 E & W	1 F		• • • • • • • • • • • • • • • • • • • •			
23 00011 130	gth av S	T PR								
	10th av S	1 SF	1		2 E & W	7				
	12th av S 13th av S	1 SE								
	114th av South	i sw			1 W					
	15th av S Bl'm'ngt'n av	1 SF	2		1 W	,				

STREET OR	Intersecting	nd lo- on of ants.	No	. OF GAT	ES AND	SIDE OF	STREET (ON WHIC	H SITUA	TED.
AVENUE OF PIPE.	STREET.	No.and lo- eation of hydrants.	4	6	8	10	12	16	24	36
29th av N	N 2d st	1 NW			1 W					
2½ st	Cedar av	1 SE		1 E						
W/2 DU	19th av. S	1 SE								
	20th av. S	1 SW								
Vine place	Oak Grove st.			1 S						
	Clifton av	1 NW								
	W 19th st	1 NW								
Work or N	W Fr'nklin av	1 T owner		1 N						
Wash. av N	Hennepin av. 1st av N	1 Lowry 1 NW		T IN						
	2d av N	1 NW 1 NW 1 NW		2 N & S						
	3d av N	1 NW								
	4th av N	1 SW		1 S						
	5th av N	1 SW								
	6th av N	1 NW 1 NW 1 NW				2 N & S *1 N				
	7th av N	1 NW				*1 N				
	8th av N	1 NW				†1 S				
	9th av N 10th av N	1 NW 1 NW								
	12th av N	1 NW								
	Plymouth av.				1 N	18				
	14th av N	1 SW								
	15th av N	1 SW			1 N					
	16th av N	1 SW								
	17th av N	1 SW								
	18th av N 19th av N	1 SW 1 SW								
	20th av N	1 SW			2 N & S					
	21st av N	1 SW			~ 11 (6 5					
	22d av N	1 SW								
	23d av N	1 SW			1 N					
	241h av N	1 SW								
	25th av N	1 SW			0.37.0.0					
	26th av N	1 SW 1 SW			2 N & S		• • • • • • • • •			
	27th av N 28th av N	1 SW 1 SW			• • • • • • • • •					
	29th av N	1 SW			1 N					
	30th av N	i sw								
Wash. av S	Hennepin av.						1 S			
	Nicollet av						2 N & S			
	1st av S	1 Lowry								
	2d av S	1 Lowry 1 SW								
	3d av. S	Lowry					18			
	4th av. S	1 SW					1.			
		Lowry								
	5th av. S 6th av S						2 N & S 2 N & S			
	7th av S	1 SW					ZNas			
	8th av S	1 SW		27			1 S			
	9th av S	1 SW		4.7			1 5			
	10th av S	1 SW								
	11th av S	1 SW								
	4017 0	Flush.				· 1 S				
	12th av S 13th av S	1 SW 1 SW								
	ioth av o	Lowry				1 S				
	14th av S	1 SW								
	Cedar av	1 SW		1 E		1 W				
		1 SE								
	19th av S	1 SE								
	20th av S	1 SE								
Wootonnor	21st av S N. 9th st	1 SW 1 NE		9 F & W						
Western av	N 10th st	1 NE		W El CC W						
	N 11th st	1 NW								
	N 11th st N 12th st	1 NE								
	R. R. bridge	\$1 E			2 E & W					
	Border av	1 NE								
	Lakeside av	1 NE			1 337					
	Lyndale av Aldrich av	1 NE 1 NE			1 W					
	Bryant av	1 NE								
	Bassett's ck	i E		1 E						
	Dupont av	1 NE								
* North of		South of	SOU	th line.	#Intos	sewer.	§ East s	ide of.	Waste	
110111101		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			1 22200 1		C 431010 D			

Table No. 5-Continued.

STREET OR	Intersecting	n of ants.	No.	OF GAT	ES AND S	IDE OF	STREET O	N WHIC	HICH SITUATED.		
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36	
Western av	Emerson av	1 NE			1 E						
., 00000111 00.111	Fremont av	1 NE									
	Girard av	1 NE									
	Humboldt av.	1 NE			1 W						
	Irving av	1 NE									
	James av	1 NE									
	Knox av	1 NE									
	Logan av	1 NE			1 E						
	Morgan av	1 NE									
	Newton av	1 NE									
	Oliver av	1 NE			O TO 0 XX						
	Penn av	1 NE			2 E & W						
	Queen av	1 NE									
Willow st	Russell av Harmon pl	1 SE	•••••	1 S							
WIHOW St	Yale place	1 NE	`	1 0						}	
	Angle	1 Nof									
	W. Grant st	1 SE		2 N & S							
	Tr. Grant Str			~ 11 00 13							
Total		1,431	3	427	217	20	106	55	51	4	

EAST SIDE.

STREET OR	Intersecting	No.and lo- cation of hydrants.	No.	OF GAT	ES AND	Side or	STREET C	N WHIC	H SITUAT	TED.
AVENUE OF PIPE.	STREET.	No.an catic hydr	4	6	8	10	12	16	24	36
Adams st	4th av NE			1 N						
	Half way	1 sw								
	Spring st Half way	1 SW								
	Summer st	î sw								
	Half way	1								
	Broadway	1 SW		2 N & S						
	Half way 13th av NE	$\frac{1}{1}$ sw		1 S						
	Half way	1								
	15th av NE	1 SW		1 S						
	Half way 17th av NE	$\frac{1}{1}$ sw								
Alley in b 2 on	Ittu av NE	1 5 W								
Nic. Island.	Maple st	1 SW								
Alley in b. 11) About 66ft N) of Maple st									
on Nic. Isl (Maple st	1 NW			1					
Alley in b 31	(About 80ft N	1 14 14								
on Nic. Isl	About 80ft N of R'y sh'ft				1					
Bridge st	Isl. av at w s.	1 NE						1 W		
Broadway	Isl. av at e s Main st	1 NW 1 NE			1 E					
Droadway	2d st NE	1 NE			1 F.				* * * * * * * * * * * * * * * * * * * *	
	2d st NE 3d st NE. nw'd	1 NE								
	3d st NE, sw'd				2 E&W					
	4th st NE	1 NE								
	5th st NE	1 NE								
	5th st NE 6th st NE,nwd	1 NE			1 E					
	Washingt'n st	1 NE								
	Adams st Jefferson st	1 NE			1 E					
	Madison st	1 NE			1 1					
	Monroe st	1 NE								
	Quincy st	1 NE								
	Jackson st Harrison st	INW			1 W			1 E		
Cambridge st	Prospect st	1 NE			1 "		1 E	1 12		
	Pleasant st	1 NE								
	State st	1 NE								
	Union st	1 NE					1 W			
	Harvard st	1 NE								
	Walnut st	1 NE								
	Oak st	1	1	1	1		1 W			· · · · ·

	INTERSECTING	nd l ran	-NO	OF GAT	ES AND S	SIDE OF	STREET O	N WHIC	H SITUAT	red.
AVENUE OF PIPE.	STREET.	No and lo- eation of hydrants.	4	6	8	10	12	16	24	36
Central av	Main st	1 NE 1 NE 1 NW						1 E		
	2d st 4th st	1 NE 1 NW					1 E			
	5th st	1 NE								
	6th st 7th st NE	17/11								
Central av	8th st SE 9th st NE	1 NE *1								
	9th st SE			1 W						
Como av	10th st NE	1 NW 1Eof NE								
como a v	10th av SE 11th av SE	1 NE					1 W			
	12th av SE 13th av SE	1 NE 1 NE					1 W			
	14th av SE	1 NE					1 E			
	15th av SE Tuttle st	1 NE 1 NE					1 E			1::::
	16th av SE	1 NE								
Division st	Oak st Harrison st	1 NW 1 NE					1 E			
	Tyler st Polk st	1 NE								
	Taylor st	1 NE		i W						
	Fillmore st Pierce st	1 NW 1 NE								
	Buchanan st	1 NE					1 W			
	Lincoln Johnson st	1 NE								
	11th av SE	1 NE					1 W			
	12th av SE 13th av SE	1 NE								
8th st SE	Central av 2d av SE	1 SW		1 S						
	2d av SE 3d av SE	1 SW 1 SW		2 N & S						
	4th av SE	1 SW								
8th av NE	5th av SE Sibley st	1 NW								
	Ramsey st	1 NE			4 70					
	Marshall st Main st	1 NE			1 E					
	2d st NE 3d st NE	1 NE			1 W 1 W					
18½ av NE	Monroe st	1 NE			1 E					
	Quincy st Jackson st	1 NE 1 NE								
	Harrison st	1 11			1 W					
11th av NE	Ramsey st Marshall st	1 NE			1 E					
	Main st	1 111			1 W					
15th av SE	5th st SE 6th st SE	1 NE		1 E						
	7th st SE	1 NW								
	8th st SE Rollins av	1 NW 1 SW		1 W						
	Brook av	1 SW		2 N & S						
	Como av	1		2 4 6 8						
	Talmadge av.	1 SW 1 SW		1 6						
5th st NE	Division st Central av			1 S 1 N						
	Central av 1st av NE 2d av NE	1 SE 1 SE		1 N						
	ou av NE	i SE 1 SE								
	4th av NE	1 SE 1 NE			1 N					
	6th av NE	1 NE			1 N					
	7th av NE 8th av NE	1 SE 1 SE								
	9th av NE	i se			1 S					
	Central av 1st av SE	1 SW					1 S			
	2d av SE	1 SW					2 N & S			
	3d av SE 4th av SE	1 SW 1 SW								
	5th av SE	1 SW					1 N			
	6th av SE 7th av SE	1 SW 1 SW								

Table No. 5-Continued.

STREET OR	INTERSECTING	nd na	NO	. OF GAT	ES AND	SIDE OF	STREET (ON WHIC	H SITUA'	TED
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
5th st SE	Half way			1						
	8th av SE 9th av SE	1 SW 1 SW								
	10th av SE	1 SW								
	11th av SE	1 SW								
	12th av SE	1 SW 1 SW		1						
	14th av SE	1 NW		1 N						
	15th av SE	1 SW 1 N W					1 S			
oth av SE	4th st SE	1 14 14		1 E						
	7th st SE 9th st SE	1 NIE		1 E						
	Division st	1 NE		1 S						
4th av SE	3d st SE	1 SE					4 75			
	4th st SE 5th st SE	1 NE								
	6th st SE	1 NE								
	7th st SE 8th st SE	1 NW 1 NE					1 W			
	Rollins av	1 SW					1 11			
	Brook av	1 SW					1 8			
th st NE	Como av	1 SW 1 NE		1 N			1 5			
	1st av NE	1 SW								
	1st av NE 2d av NE 3d av NE	1 SW 1 SW								
	4th av NE 5th av NE	1 SW		1 S						
	5th av NE	1 SW 1 SW		1 N						
	6th av NE	1 SW 1 SW		1 1						
	8th av NE	1 SW								
	9th av NE Broadway	1 SW 1 SW		1 S						
th st SE	Central av						is			
	1st av SE	1 NE 1 NE						· · · · · · · · · · ·		
	3d av SE	1 NE					2 N & S 1 N			
	4th av SE	1 NE								
	5th av SE 6th av SE	1 NE 1 NE 1 NE					1 N			
	7th av SE	1 NE								
	8th av SE 9th av SE	1 NE 1 NE								
	10th av SE	1 NE					1 N			
th st SE	11th av SE	1 NE								
	12th av SE 13th av SE	1 NE 1 NE								
	14th av SE	1 NE			1 S		1 N			
	16th av SE	1 SE 1 NE					2 N & S			
	18th av SE	1 NE								
	19th av SE Oak st	1 NE 1 NE								
th av NE	Main st	1 NE			1 E		1 N			
	2d st NE	1 NE			4 337					
Harrison st	3d st NE 3d av SE or				1 W					
	Division st.								1 N	
	Winter st 2d av NE	1 SW 1 NW								
	3d av NE or									
	Spring st Summer st	1 SW 1 SW							1 S	
	Broadway	1 SW							2 N & S	1:::
	112th av NE	1 SW								
	13th av NE 14th av NE	1 SW 1 SW							1 S	
	181/4 ON NE	1 NW								
	20th av NE 21st av NE 22d av NE	1 SW								
	22d av NE	1 SW 1 SW							2 N & S	
	23d av NE 24th av NE	1 SW 1 SW								
	25th av NE	1 SW							1 8	
sland av or W	Bridge st									
					*1				1	

	1	1 1 1								
STREET OR	Intersecting	d lo- n of ants	No	OF GAT	ES AND S	SIDE OF S	STREET O	N WHICI	H SITUAT	ŒD.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
Is.av or w Nic.	Grove st 121.3 ft. N of	1 NE 1 NE								
Toolsoon at	N of R R 3d av NE	1 1 NW			1					
Jackson st	Springst	1 SW 1 SW			1 N					
Jefferson st	Broadway	1 SW 1 NW			1 S					
	Broadway 13th av NE	1 SW 1 SW 1 SW			1 S					
Madison st	15th av NE 17th av NE 4th av NE	1 SW 1 SW		1 N	anas		1 S			
	Half way Spring st Half way	1 sw								
	Summer st	$\frac{1}{1}$ NW								
Main st NE	Broadway Central av 1st av NE	1 NW 1 SE		1 N						
	2d av NE 3d av NE	1 SE 1 SE		1 N						
	4th av NE	1 SE 1 SE 1 SE		1 0						
	6th av NE 7th av NE 8th av NE	1 NW 1 SW		1 S						
	9th av NE	1 SW 1 SW				,				
	Broadway or 11th av NE 12th av NE	1 SW 1 SW		1 S	1 N					
	13th av NE 14th av NE	1 SW 1 SW 1 SW			2 N & S					
	15th av NE 16th av NE	1 SW 1 SW			1 S					
Main st SE	17th av NE 18th va NE	1 SW 1 SW 1 SE			1 S					
M'rsh'll st NE	3d av SE	1 NE		1 N	1 N					
	14th av NE Half way	1 SW								
	15th av NE 16th av NE Half way	1 SW 1 SW		1 S						
	18th av NE 1-Third way	1 SW		1 N						
75. 2.112 (77	2-Thirds way 22d av NE	1 1 SW		1 S						
M'rsh'll av SE	21st av SE 22d av SE	1 NE 1 NE 1 NE					1 E			
	221/2 av SE 23d av SE	1 NE					J W			
	24th av SE	1 NE 1 NE								
Monroe st	W of RR Summer st Half way	1 NW					1			
	Broadway Half way	1		1 S	1 N					
	13th av NE 15th av NE	1 SW 1 SW 1 SW		• • • • • • • • • • • • • • • • • • • •	1 S	•••••				
	17th av NE 18th av NE 18½ av NE 9th av SE	1 op NE			1 S					
9th st SE	10th av SE	1 NW		1 S 1 N						
9th av SE	8th st SE 9th st SE	1 NE 1 NE		1 E						
Oak st	E of tracks	1					1 S			
	Arlington st Beacon st	1 SW 1 SW								

Table No. 5-Continued.

***************************************		lo- of nts.	No	. OF GAT	ES AND	SIDE OF S	STREET (N WHIC	H SITUAT	FED.
STREET OR AVENUE OF PIPE.	Intersecting Street.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
Oak st	Cambridge st.	1 NW					1 N			
Prospect st	Cambridge st.			18						
2d st NE	Delaware st Central av	1 SE		1 W	1 N					
	1st av NE	1 SW 1 SW								
	1st av NE 2d av NE 3d av NE	1 SW 1 SW			2 N & S					
	4th av NE 5th av NE	1 SW			2 N & S					
0.7 (3777	6th av NE	1 SW								
2d st NE	7th av NE 8th av NE	1 SW 1 SW			1 N					
	9th av NE	1 SW 1 SW								
	10th av NE Broadway	1 9 11			1 S					
2d st SE	Central	1 NW		1 S						
7th st SE	Central av			1 S						
	2d av SE	1 NW 1 NW		2 N & S						
	4th av SE	1 SE								
	5th av SE	1 NE 1 NE		1						
	7th av SE	1 NE		1						
	8th av SE	1 NE 1 NE								
	10th av SE	1 NE 1 SE		2 N & S						
	12th av SE	1 SE		1						
	13th av SE	1 SE 1 SE		2 N & S						
	15th av SE	1 SE								
7th av SE	16th av SE 5th st SE	1 NE								
	6th st SE	1 NE								
	7th st SE 8th st SE	$1 \text{ NW} \\ 1 \text{ NW}$								
Sibley st	8th av NE 9th av NE	1 SW			1 N					
	10th av NE	1 SW								
	11th av NE 12th av NE	1 SW 1 SW			2 N & S					
1043 (ITS	13th av NE	1 SW			1 S					1
16th av SE	3d st SE 4th st SE	$\frac{1}{1}\frac{NE}{NW}$					1 E			
	Como av Talmadge av.			1 N						
6th st SE	Central av	1 SW		i s						
	2d av SE	1 SW 1 SW		2 N & S						
	4th av SE	1 SW		1 N						
	5th av SE 6th av SE	1 SW 1 SW								
	7th av SE	1 SW		1 N						
	8th av SE 9th av SE	1 SW 1 SW								
	10th av SE 11th av SE	1 SW 1 SW		2 N & S					*******	
	12th av SE	1 SW.								
	13th av SE	1 SW 1 SW		2 N & S						
	15th av SE	1 SW		1 N						
6th av NE	16th av SE Marshall st	1 NW		1 E						
	Main st	1 NE 1 NE 1 NE								
	2d st NE 3d st NE			1 W						
Spring st	Harrison st Tyler st	1 NE 1 NE			1 E		*			
	Polk st	1 NE								
	Taylor st Fillmore st	1 NE 1 NE			1 W					
State st	Pierce st	1 NW								
	Beacon st Cambridge st	1 NW		1 N						
Taylor st	Division st	$\frac{1}{1}\frac{NW}{SW}$								
3d st NE	3d av NE Central av	1 NE					1 N			
	list av NE	1 NE		١	l					

STREET OR INTERSECTING STREET.		nd an		OF GAL	ES AND S	IDE OF S	STREET O	N WHICH	H SITUAT	ED.
AVENUE OF PIPE.	STREET.	No.and lo- cation of hydrants.	4	6	8	10	12	16	24	36
Third st NE	2d av NE	1 NE								
	3d av NE 4th av NE	1 NE 1 NE								
	5th av NE	1 NE								
	6th av NE	1 SE					····i			
	7th av NE 8th av NE	1 NE								
	8th av NE	1 NE								
	9th av NE 10th av NE, or	1 NE								
	Broadway	1 SE					18			
Third st SE	Central av	1 SW					$\tilde{1}\tilde{s}$			
	1st av SE 2d av SE	1 NW								
	2d av SE	1 SW		1			1 N			
	3d av SE 4th av SE	1 NW 1 NE		1 S			1 N			
	5th av SE	1 NE								
	6th av SE	1 NE								
	7th av SE	1 NE 1 NE		1						
	8th av SE	1 NE 1 NE								
	9th av SE 10th av SE	1 NE								
	11th av SE	1 NE								
	12th av SE	1 NE								
	13th av SE	1 NE								
	14th av SE	1 SW		1						
d or NE	15th av SE	1 NE			1 E					
d av NE	5th st NE Madison st	1 NE			1 12	********				
	Monroe st	1 NE								
	Quincy st	1 NE			1 E					
	Jackson st	1 NE				2				
d ave SE	VanBuren st.	1 NE						1		
u ave se	On Hen. Isl'nd in pump hse								1	
	Main st	1 SE								
	Main st 2d st SE	*1 NE								
		†1 SW								
	3d st SE	1 NE							0.77 % 337	
	4th st SE 5th st SE	1 NE							2 E & W	
	6th st SE	1 NE								
	7th st SE	1 NE 1 NW							1 W	
	8th st SE	1 NE								
	9th st SE or								4 337	
3th av NE	Division st Bank of river								1 W $1 E$	
Juliav Ive	River st	1 NE								
	Ramsey st	1 NE								
	Marshall st	1 NE						1 E	1 W	
	Grand st	1 NE						1 E		
	Main st Jefferson st	1 NE		1 E				1 W		
	Madison st	1 NE 1 NE								
	Monroe st			1 W						
3th av SE	4th st SE	1 NE		1 W						
	6th st SE			1 E						
	7th st SE	1 NW		1 W						
	Como av Half way	1		1 1						
	Talmadge av.	1 sw								
	Talmadge av. Half way Division st	1								
	Division st			1 S						
uttle st	Como av	1 SW		1 N						
Jan Buran et	Talmadge av. Broadway	1 NW		1 N						
	12th av NE	1 SW		I N						
Wilder st on	Bridge st				1 S					
Nic island										
Ivio. Island	DEC 01	_								
Wilder st on Nic. island in tunnel	350 ft. south	2								

*On parallel pipe.

†From 8-inch pipe alongside of 24-inch pipe.

Summary.

Combination fire and sprinkling hydrants, 3; Lowry hydrants, 12; water hydrants, 7; flush hydrants, 14; post hydrants, 1,757.

Table No. 6.

```
Showing Number and Location of Sprinkling Stand Pipes (West Side.)
   First street and Second avenue south.
                        " Sixth avenue south.
" First avenue north.
  66
      66
      66
                              Third avenue north
   Third street and second avenue south.

""

"Ninth avenue south.

"Eleventh avenue south.
                               Eleventh avenue south.
   " " Third avenue north.
" " Ninth avenue north.
Fourth street and Third avenue south.
               " Sixth avenue south.

" Sixth avenue south.

" Fifteenth avenue south.

" or Riverside and Twenty-second avenue.

" and Hennepin avenue.
         66
                         and Renneph avenue.

"Second avenue north.

"Sixth avenue north.

"Tenth avenue north.

Sixth avenue north.

"Plymouth avenue north.

"Twentieth avenue north.

"Twentieth avenue north.
                 66
   Fifth street and Eighth avenue south.
      " " Eleventh avenue south." " Cedar avenue south.
      64
               66
                        " Twentieth avenue south.
                       " Third avenue north.
      66
               " Seventh avenue north.
" Tenth avenue north.
      66
      66
   Sixth street and Second avenue south.
      " "Sixth avenue south.
" "Thirteenth avenue south.
   " " Thirteenth avenue south.
" " Twelfth avenue north.
" Oak Lake avenue.
Seventh street and First avenue south.
" Fourth avenue south.
" Seventh avenue south.
" " Seventh avenue south.
                            Eleventh avenue south.

Eleventh avenue south.

First avenue north.

Twenty-first avenue south.
                   66
   Lyndale and Western avenues.
            "Highland avenues.
"Eighth avenue north.
"Twenty-form
                         Twenty-fourth street.
                  "Twenty-fifth and Twenty-sixth streets.
"Thirty-second street.
   Lyndale avenue between Laurel and Hawthorne.
Eighth street and Nicollet avenue.
"Third avenue south.
                 " Third avenue south.
" Fourteenth avenue south.
         66
                 Cedar avenue north.
Twelfth avenue south.
Seventeenth avenue south.
         46
    Aldrich and Eleventh avenue north.
```

```
Ninth street and Fifth avenue south.
           " Seventh avenue south.
" Eighth avenue south.
  Aldrich and Eleventh avenue north.
  Nith street and seventh avenue south.
 Bryant and Sixth avenue north.
Bryant avenue and Twentieth avenue north.
 Tenth street and First avenue south.

" " Fourth avenue south.
" " Chicago avenue.
" " Hennepin avenue.
 Eleventh street and Western avenue.
Emerson and Western avenue.
Emerson and Plymouth avenue.
Emerson and Nicollet avenue.
""" Third avenue south.
Twelfth street and Mconet.

" " Third avenue south.

" " " Hennepin avenue.

First avenue north.

Girard avenue and Twentieth avenue north.

Grant street and Nicollet avenue.

" " Stevens avenue.

" " Sixth avenue south.

" " Sixth avenue north.
 Thirteenth avenue south between Tenth and eighteenth streets.
  Fourteenth street and Spruce place.
Fourteenth street and Hennepin avenue
  Fifteenth street and fourth avenue south.

" " Park avenue.

" " Eleventh avenue south.
  Sixteenth street and Harmon place.
Sixteenth street and Harmon place.

""" Stevens avenue.

""" Linden avenue.

""" Third avenue south.

Sixteenth avenue north and Lyndale.

Sixteenth avenue north and Dupont.

Seventeenth street and Oak Grove street.

""" Nicollet avenue.

""" Sixth avenue south.

""" Hennepin avenue.

""" Groveland avenue.

Eighteenth street and Fourth avenue south.
 Eighteenth street and Fourth avenue south.

" " Chicago avenue.

" " Hawthorne avenue.

" " Fifteenth avenue south.
  Nineteenth street and Stevens avenue.
Nineteenth street and Ninth avenue south.
Franklin avenue and Twenty-fifth avenue south.
""" Nicollet avenue.
""" Third avenue south.
" " Third avenue south.
" " Park avenue.
" Eleventh avenue south.
" " Sixteenth avenue south.
" " Cedar avenue.
" " " Wenty-second avenue south.
" " " Twenty-second avenue south.
" " " " Sixth avenue south.
" " " " Sixth avenue south.
" " " Chicago avenue.
Twenty-third street and Kenwood boulevard.
Twenty-fourth street and Fourth avenue south.
" " Tenth avenue south.
                                                                             "Tenth avenue south.
"Thirteenth avenue south.
                                                                              "Stevens avenue.
"Third avenue south.
"Bloomington avenue.
"Cedar avenue.
"Hennepin avenue.
                                                              6.6
                            6.6
                                                              66
                                                              66
                                                             6.6
  " "Hennepin avenue.
Twenty-fifth street and Sixth avenue south.
Twenty-fifth street and Park avenue.
Twenty-sixth street and Nicollet avenue.
"Cedar avenue.
"Bloomington avenue.
"Chicago avenue.
"Chicago avenue.
"Lyndale avenue south.
"Lyndale avenue south.
"Stevens avenue south.
"Stevens avenue south.
"Heasant avenue south.
"Stevens avenue south.
"Hennepin avenue.
"Hennepin avenue.
"Twenty-second street and Cedar avenue.
Thirty-second street and Hennepin avenue.
                            66
                                                             66
   Thirty-second street and decar avenue. Thirty-second street and Stevens avenue. Lake street and Dupont avenue.

" " Lyndale avenue.
```

Lake street and Pleasant avenue. " Nicollet avenue.
" Third avenue south. " Chicago avenue. " Sixth avenue south. " Fourteening."
" Cedar avenue. Fourteenth avenue south. Minnehaha and Twenty-fourth street.
Pleasant avenue and Twenty-fifth street.
Pleasant avenue and Thirty-second street.
Clinton avenue and Twenty-sixth street.
Nicollet avenue and Twenty-eighth street.
Oak Lake avenue and Eighth avenue north. Oak Lake avenue and Eighth avenue north. Aldrich avenue and Eleventh avenue north. Bryant avenue and Sixth avenue north. Bryant avenue and Twentieth avenue north. Dupont avenue and Eighteenth avenue north. Emerson avenue and Western avenue. Emerson avenue and Plymouth avenue. Girard avenue and Twentieth avenue north. Kenwood boulevard and Sheridan avenue Kenwood boulevard and Mount Curve avenue. Logan avenue and Western avenue. Ridgwood avenue and Lyndale avenue. Royalston and Hoag avenues. Royalston and Highland avenues. Royalston avenue north of bridge. Royalston avenue north of bridge. Riverside avenue and Twenty-fifth avenue south.

EAST SIDE SPRINKLING HYDRANTS.

EAST SIDE SPRINKLING HYDRANTS.	
Nicollet Island and Central avenue.	
Nicollet Island and Park street.	
Main street and Second avenue southeast	~
" " Fourth avenue northeast. " " Sixth avenue northeast. " " Eighth avenue northeast.	
" " Sixth avenue northeast.	
" " Eighth avenue northeast.	
" " Broadway northeast.	
Marshall street and Thirteenth avenue northeast.	
University avenue and Oak street southeast.	
University and second avenue southeast.	•
" Fifth avenue southeast. " Tenth avenue southeast. " Tenth avenue southeast.	
" Eighth avenue northeast.	
Fourth street and Seventh avenue southeast.	
" " Twolfth avenue southeast.	
" Tenth avenue southeast. " Twelfth avenue southeast. " Twelfth avenue southeast. " Twentieth avenue southeast. " Central avenue.	
" Gentral avenue	
" between Fourth and Fifth avenues northeast.	
Fifth street and Eighth avenue southeast.	
" " Fourteenth avenue southeast.	
" " Third avenue southeast.	
Sixth street and Tenth and Eleventh avenues southeast.	
Monroe and Eighteen-and-a-half avenue northeast.	
Sixth street and Sixth avenue southeast.	
Adams street and Broadway northeast.	
Seventh street and Central avenue.	
" " Second avenue southeast. " " " Fifth avenue southeast.	
Monroe street and Plant avenue southeast.	
Monroe street and Broadway northeast.	
" " Third avenue northeast. " " Spring street northeast.	
Cambridge street and Harvard avenue.	
Adams street and Seventeenth avenue northeast.	
Jefferson street and Fourteenth avenue northeast.	
Harrison street and Twenty-fifth avenue northeast.	
Ramsey and Marshall streets northeast.	
Harrison street and Twenty-third avenue northeast.	
Ninth street and Fifth avenue southeast.	
Harrison street and Eighteen-and-a-half avenue northeast.	
Ninth street and Third avenue northeast.	
Ninth street and Tenth avenue southeast.	
Tenth street and Third avenue northeast.	
Como avenue and Fourteenth avenue southeast.	
Rollins street and Fourteenth avenue southeast.	
Hennepin avenue and Second street combination fire and sprinkling	
Nicollet avenue and Fifth street " " "	
Hennepin avenue and Sixth street Nicollet avenue and Fifth street Hydrants on East side. """ """	48
Hydrants on West side	190
and the state of t	150
Total	238

Ja

Fe

Table No. 7.

Showing the Number and Location of Watering Troughs and Fountains in City January 1, 1890.

FOUNTAINS.

On Bridge square. Cedar avenue and Washington avenue. Minnehaha and Twentieth avenue north. Plymouth avenue and First street. Central avenue and Fifth street. East Side. Monroe street and Third avenue northeast.

TROUGHS.

On Plymouth avenue and Tenth street.
Plymouth avenue and Sixth street.
Washington avenue and Fifteenth avenue north.
Crystal lake road and James avenue.
Marshall avenue and Eighth avenue northeast.
Marshall avenue and Sixth avenue northeast.
University avenue and Fourteenth avenue southeast.
Main street and Thirteeth avenue northeast.
Lake street and Lyndale avenue.

Table No. 8.

Showing Location of Hydrants Set in Place Flush. Condemned and Broken Hydrants,

Hennepin avenue and Ninth street, short hydrant taken out. Hennepin avenue and Eighth street, broken. First avenue south and Washington avenue, short hydrant taken out. Fifth street and Fourth avenue north, short hydrant taken out. First street and First avenue north, four inches taken out. First street and Second avenue north, four inches taken out. Eleventh avenue south and Third street, flush taken out. Fifth street and Fourteenth avenue south, Fifth street and Fourteenth avenue south, Fifth street and Thirteenth avenue south, Fifth street and Fourth avenue south, Fifth street and Fourth avenue south, Fourteenth street and Fourth avenue south, Fourteenth street and Fourth avenue south, Fifteenth street and Fourth avenue south, Sixteenth street and Fourth avenue south, Fifteenth street and Fourth avenue south, Fighteenth street

Table No. 9.

	£	Showing Hydrants Repaired During the Year	1889, with Location.
n.	3.	On Broadway and Harrison street.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.	181/2 avenue northeast and Harrison street.	
	4.	Hennepin avenue and Fourth street,	
	5.	Kenwood boulevard and Mt. Curve avenue.	
	4. 5. 7.	First street and Second avenue south.	
		Eighth avenue north and Bradford street.	
	9.	Nicollet avenue and Tenth street.	
	10.	Nicollet avenue and Twelfth street.	
	12.	Western avenue and bridge.	
	14.	Highland avenue and Hoag avenue.	
	16.	Hennepin avenue and Ninth street.	
	18.	Ninth avenue south and Seventeenth street.	
	19.	Chicago avenue and Fourteenth street.	
	22.	Aldrich avenue and Fifth street.	
	24.	Aldrich avenue and Sixth street.	
	26.	First street and Second avenue south.	
	28.	Plymouth avenue and second street.	
	29.	University avenue and Fourth avenue south.	
	30.	Division street and Fifth avenue southeast.	
_		Main street and Third avenue southeast.	
b.	6. 7. 9.	Nicollet avenue and Seventh street.	
	7.	Sixth street and Fifteenth avenue southeast	
	9.	Washington avenue and First avenue south.	
	10.	Riverside avenue and Twenty-fourth street.	
	15.	Sixth avenue south and Sixth street.	
	16.	Cedar avenue and Ninth street.	
	17.	Hennepin avenue and Ninth street.	
	19.	Fourth street and Eighth avenue southeast.	

		SUPERVISOR OF WATER WORKS REPORT.
Feb.	21.	Sixth avenue south and Eighth street.
	21. 22. 25.	Minnehaha avenue and Twenty-fourth street. Eleventh avenue south and Twenty-fourth street.
	26.	Second street and first avenue south.
Monol	28.	Tenth avenue southeast and Fourth street. Western avenue and Twelfth street.
March	13.	
	20.	Eighteen-and-a-half avenue northeast and Harrison street. Ninth avenue north and Washington avenue. Eighth avenue north and Fifth street. Eighth avenue north and Fifth street.
	23. 26.	Ninth avenue north and Washington avenue. Fighth avenue north and Fifth street
	28.	
	29.	Third avenue northeast and Madison street. Hennepin avenue and Fourth street. Hennepin avenue and Fifteenth street.
April	2. 3.	Hennepin avenue and Fourth street. Hennepin avenue and Fifteenth street.
	9.	Hennepin avenue and Second Street.
	9.	Second avenue north and Fourth street. Second avenue south and Fourth street.
	10.	Sixth avenue south and Sixth street.
0	11.	Fourth street and Sixth avenue southeast.
	16.	Fifth street and Fourth avenue north.
	18. 20.	Sixth avenue southeast and Fourth street. Eleventh avenue southeast and Fourth street.
	26.	Second street and Thirty-ninth avenue north.
	29.	Twenty-first avenue south and Fifth street.
May	30. 3.	Fourth street and Second avenue northeast. Harriet avenue and Twenty-eighth street.
	4.	Hawthorne avenue and Seventeenth street.
	6. 7.	Sixth avenue north and Third street. Linden avenue and Fifteenth street.
		Sixth avenue south and Sixth street.
	.8.	Linden avenue and Fourteenth street.
	10. 18.	Sixteenth avenue north and Sixth street. Fourth avenue and Fifth street.
	20.	Third avenue south and Twentieth street.
	22.	Third avenue south and Third street.
	24.	Eighth avenue south and Tenth street. Central avenue and Fourth street
		Fourteenth avenue south and Ninth street.
	27.	Fifteenth avenue south and Ninth street.
	28.	Seventeenth avenue south and Twenty-sixth street. Seventeenth avenue south and Twenty-seventh street.
_	29.	Cedar avenue and Sixth street.
June	6. 8.	Twentieth street and Twenty-fifth avenue south, northeast corner. Twentieth street and Twenty-fifth avenue south, southeast corner.
	11.	University avenue and First avenue northeast.
	15.	Sixth street and Eleventh avenue southeast.
	18. 20.	Seventh street and Sixth avenue northeast. Second street and Fifth avenue northeast.
	27.	Eleventh avenue south and Fifth avenue northeast.
T 1	28.	Third avenue south and Sixth street.
July	6. 9.	Third street and Fourth avenue northeast. Third street and Fifth avenue northeast.
	13.	Linden avenue and Twenty-fourth street.
	16.	Thirteenth street and Sixth avenue north.
	23. 27.	Humboldt avenue and Sixth avenue north. Sixth avenue north and Irving avenue.
	29.	Sixth avenue north and James avenue.
	30.	Royalston and Oak Lake. Jefferson street and Fifteenth avenue northeast.
Aug.	1.	Emerson avenue and Fifteenth avenue north.
	5.	Franklin avenue and Thirteenth avenue south.
	7.	Marshall avenue southeast, near Oak street. Sixth avenue south and Fourth street.
	9.	Sixth street and Fourth avenue south.
	12.	Fifth street and Fourth avenue south. Fifteenth avenue south and Twelfth street.
	13.	Fifteenth avenue south and Tenth street.
	14.	Third street, between Hennepin avenue and first avenue north. Eleventh street and Fourth avenue south.
	17. 21.	Fourteenth street and Fourth avenue south.
	23.	Fifth avenue south and Sixth street.
61	31.	Fifth avenue south and Sixth street. Sixth avenue south and Nighth street.
Sept.	2. 4.	Fourth avenue south and Eighth street. Fourth avenue south and Eighteenth street.
	10.	Broadway and Elk street northeast.
	18.	Western avenue and Border street.
Oct.	28. 1.	Eleventh avenue south and Fourth street. Western avenue and Lake street.
000.		Western avenue and Lyndale avenue.
	2.	Western avenue and Lake street. Western avenue and Lyndale avenue. Western avenue and Emerson avenue. Western avenue and Fremont avenue.
	5. 7.	Sixteenth avenue southeast and Fourth street.
	9.	Western avenue and Girard avenue. Western avenue and Irving avenue.
	12.	Western avenue and Irving avenue. Oak street and Cambridge street.
	19. 22.	Fourth street and Cambridge street. Fourth street and Sixteenth avenue southeast.

Oct.

Oct. 29.

20 31.

Nov. 4 5.

Eighth street and Cedar avenue.
Seventeenth street and Vine place.
Hennepin avenue and Twenty-seventh street.
Fifth street and Ninth avenue north.
Second street and Twenty-second avenue north.
First avenue south and Twenty-fifth street.
Hennepin avenue and Twenty-seventh street.
Washington avenue and Sixth avenue south.
Kenwood boulevard and Twentieth street.
Twentieth avenue north and Fourth street.
Second avenue south and Eighth street. 11. 12. 13 Second avenue south and Eighth street.

Table No. 10.

Showing Number of Gates Repaired During the Year 1889, and Location.

March 2. On Main street and Third avenue southeast. Hennepin avenue and Sixth street.

19. First avenue north and Fourth street. April Nicollet avenue and Third street. 16.

Hennepin avenue and Third street.

East Nicollet avenue, gate on Fourth street.

Fourth street, sate on Nicollet avenue.

Twentieth street and Twenty-fourth avenue.

First avenue and Twenty-fourth street.

Sixth avenue north and Lyndale.

Sibley steet and Fighth avenue northeast 22. 22. May

June July 26.

26. 28. Aug.

31. Sept. 4.

Sixth avenue north and Lyndale. Sibley steet and Eighth avenue northeast. Harmon and Twelfth street. Sixth avenue south and Ninth street. Fourth avenue south and Eighth street. Fourth avenue south and Fifteenth street. Fourth avenue south and Sixteenth street. Fourth avenue southeast and Fourth street. Plymouth avenue and Fourth street. Sixteenth avenue southeast and Fourth street. Sixteenth avenue southeast and Fourth street. 24. 26. 3.

19. 21.

Plymouth avenue and Fourth street. Sixteenth avenue southeast and Fourth street. Ninth street and Fifth avenue south. Sixth street and Nicollet avenue. Twentieth avenue south and Eighth street. Hennepin avenue and Twenty-seventh street. Royalston avenue and Highland. Valley avenue and Royalston avenue. Seventh avenue south and Tenth street. First street and Second avenue south. Second avenue south and Washington avenue. 29. Nov.

Lyndale avenue and Vineland place.

Table No. 11.

Showing Mains Repaired During 1889, and Location.

On Harrison street and Twenty-third avenue northeast, Division street and Fifth avenue southeast. Sixth street and Fifteenth avenue southeast. Eighteen-and-one-half avenue northeast and Jackson street. Second street and Forty-first avenue north.
Second street and Thirty-ninth avenue north. Cambridge street southeast. First avenue south and Twelfth street Monroe street and Broadway.
Fourth street and Sixth avenue southeast. Western avenue and Dupont.
Oak street and Marshall street northeast.
Third avenue north and Second street.
Fifth street and Tenth avenue southeast.
Fourth street and Eighth avenue north.
Morgan avenue and Fifth avenue north.
Central avenue and Seventh street. Central avenue and Seventh street.
University avenue and First avenue northeast.
Sixth avenue north and Dupont.
Jefferson street and Fifth avenue northeast.
Emerson avenue and Fifth avenue north.
Sixth avenue and Fifth avenue north. Sixth avenue south and First street Fifth street and Fourth avenue north. Harmon place and Twelfth street.

Table No. 12.

Showing Inventory of Plumbing Shop.

Three pipe dyes stocks. One set pipe dye ¼ to 4 in. Three pipe cutters. Three pair adj pipe tongs. Two pair chain tongs. One pipe vice. One bench vice.

One gallon can. One desk. One tool chest. One force pump, brass. Six feet ¾ steam hose. Three mill saw files. One set pipe taps, ½ to 2 inch.

```
Two monkey wrenches.
                                                                       One account book.
 One 14-inch pipe wrench.
Three chisels.
One plumber's furnace.
One turn on wrench.
One bench, wooden.
                                                                       Thirteen pounds solder.
Two chairs.
                                                                       One 1 in. left-hand dye.
One 1½ in. left-hand dye.
One 3 in. wrench.
 One squirt can.
                                                           TEES.
 12-4 inch.
12-34 ".
12-3
                                                                         8-11/4 inch.
                                                                        7— <sup>3/8</sup>
1—2½ x4
 12-21/2
                                                                       12-1x11/4
                                                         FLANGES.
                                                                         7--21/2 inch.
  6-4 \\ 6-3\frac{1}{2}
          inch.
                                                                        6 - 2
                                                          PLUGS.
          inch.
                                                                         6-11/4 inch.
                                                                       6—3
7—2½
13—2
             66
             66
  9-11/2
                                                         UNIONS.
  6- 34
2- ½
6- ¼
          inch.
                                                                                   inch.
  5-11/4
             66
                                                                        3- 1/4 x 1/2
                                                         ELBOWS.
                                                                       10-2 inch.
 12-4
          inch.
                                                                       12-1
                                                                                          45 degrees.
 12-31/2
             66

\begin{array}{c}
1 & -1 \\
4 & -1 \\
4 & -1 \\
13 & -2
\end{array}

 11--3
  8-21/2
                                                                                                66
             66
 7— ¾
10— ½
             46
                                                                        12-21/2
  8- 3/4
                                                                        11-3
 11-1
                                                                        11-31/2
                                                                         1-4
 12-11/2
                                                            CAPS.
                                                                       6- 1/4 inch.
  1-4
  5-11/2
  6-11/4
                                                                                   " brass.
                                                        BUSHINGS.
                                                                        1-1 \times \frac{1}{2} inches. 6-1 \times \frac{1}{4} "
     - 1/4 x 1/2 inch.
  3-11/4
                                                                        5—2½x2

3—2½x1½

2—2½x1½

2—2½x1½

3—2½x3
  2-2
         x11/4
  2-2
  8—2 x1
2—2 x1<sup>1</sup>/<sub>4</sub>
                                                                                           66
                                                                        3-2
                                                                                           6.6
                                                                               x3
  3-1½x ¼
3-¾x ½
                                                                        3-1\frac{1}{2}x3
                                                                        3-3\frac{1}{2}x2
         x11/4
                                                                        3-31/2 x21/2
  2—1¼x ¾
3—1¼x ¾
3—1¼x ¾
                                                                        3—3 x3½
2—2½x4
                                                                                           66
                  66
                                                                                           66
                  66
                                                                        2-31/2 x4
  2-1x
                                                       REDUCERS.
                                                                       6—1½ x ¾ inch.
2—1¼ x 1 "
2—1¼ x ¾ "
3-21/2 x11/2 inch.
1-2 x1 "
1-1½ x1¼ "
1-1½x1
                                                        NIPPLES.
4— ¾ inc.
22—3 "
21—2 "
12—3½ "
       34 inch solder.
                                                                       13-3 inch long.
                                                                       24-2
                 'short.
                                                                       12-31/2
                                                                       11-4
19-2\frac{1}{2}
11-1\frac{1}{2}
                                                                       24-21/2
                                                                       \begin{array}{c} 23 - 1\frac{1}{2} \\ 22 - 1\frac{1}{4} \end{array}
                                                                                            66
                                                                                  6.6
18-11/4
                                                                                 66
                                                                        6-21/2
                                                     COUPLINGS.
11-1 inch.
                                                                        1- 1/4 inch R. & L.
                                                          PIPES.
60 ft. % iron.
                                                                       16 ft. ¾ iron.
                                                         VALVES.
12-2 inch globe.
                                                                        6-1 L. H. C. & W.
 3-3/4 T. handle C, & W.
                                                         COCKS.
9-% Ball Com.
```

-18

Table No. 13.

Showing Inventory of Blacksmith's Shop.

10 10 1	pai 2-11 4-11	ee. nch. ir tongs. b. sledge. b. hamme swedges	er.			1 drill pre 1 flatter. 1 fuller. 3 frames f 1 anvil. 2 set ham	or Gate	wrence	hes.
		tom swe				6 heading			
		edge bloc				4 files.	000001		
6	rou	ind puncl	hes.			1 monkey	wrench		
2	hot	t chisels.				1 squirt ca	an.		
		al chisel.				12-gal. oil can.			
		iges.	,			1 account	book.		
1	for	ge compl	ete.						
2	bai	S %X% CC	mmon 1	ron.		4 bars 5-16	round l	Norwa	y iron.
<u>ئ</u>	66	/8 X '8		66		9 4	66	66	66
7	66	11/4X%	4.	6.6		1 " 1	46	66	66
4	66	172 X 1 11/2 v 5/		44		6 " 2x3	flat iro	n	
9	66	3/ ¥3/	4.4	6.6			-16 "	11.	
7	6.6	31/2 X1	6.6	44		5 " 1¼X¼	-10		
4	6.6	114 x3-16	4.6	6.		1 " 4x3	66		
î	6.6	3/ round	6.6	v 4		1 " 214 x 3	66		
1	6.6	ge comples \$\% x\% co \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	44	14		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	66		
4	6.6	1 "	6.6	6.		3 feet 1¾ x	11/3 steel		
12	6.6	1/2 " 1	Norway	44		1 bar 5-16	**		
8	6.6	3/8	* 6	66					
					/TI - T- T - T-				

Table No. 14.

Showing Inventory of the Office taken January 1, 1889.

BUSINESS OFFICE.

	BUSINESS VEFICE.	
1 MacNeal and Urban safe. 2 stools. 3 cuspidors. 2 stationery desks. 2 chairs. 3 paper weights.	3 waste baskets. 1 letter press. 1 type writer. 1 directory. Stationery. 1 pair seissors.	
	SUPERVISOR'S OFFICE.	
1 carpet. 1 desk. 8 chairs. 1 standing desk. 2 stools. 2 writing tables. 1 hat tree. 1 directory. 1 pair seissors.	1 map. 4 cuspidors. 2 waste baskets. 1 drop lamp (electric). 1 fire alarm gong. 1 water guage. 1 letter press. Stationery.	

ENGINEER'S OFFICE.

1 engineer's transit,	1 engineer's level.
1 New York leveling rod.	2 drawing tables.
2 chairs.	1 office desk.
2 cuspidors.	1 waste basket.
1 steel tape, 50 feet.	1 radius bar for beam compasses.
1 steel staight edge, 36 inches.	1 nest of color-cups, 3% inch.
1 ink slab and cover.	2 tumblers.
1 pair callipers, large.	1 cup, granite ware.
1 dust brush.	1 slate.
1 sponge.	5 wall maps.
1 atlas of Minneapolis.	5 framed drawings.
2 stools.	1 model of pump valve.
3 tin tube floats.	Stationery.
	1½ dozen thumbtacks.

OFFICE AT TOOL HOUSE.

2 stationary desks.	1 waste basket.
1 writing desk.	1 map of Minneapolis
1 writing table.	1 atlas.
3 oak office chairs.	1 directory.
1 base burner coal stove.	1 water phone.
2 cuspidores.	1 water gauge.
1 cooler.	

STABLE AT TOOL HOUSE.

C.4.4	IDDS 111 1001 NOCOLI
horses.	4 horse blankets.
single harness.	1 hydrant thawer on runners.
single wagons.	8 tons hay.
sleds.	50 bushels of oats.

TOOLS AT TOOL HOUSE.

3 tapping machines, complete. 14 straight wrenches. 3 S wrenches. 6 small socket wrenches. 5 monkey wrenches. 4 gate wrenches. 4 pair extension tongs. 2 sets caulking tools. 2 s-lb. striking hammers. 2 8-lb. steel sledges. 5 crowbars. 4 hand saws	2 2-ft. iron squares. 1 Harrington chain block. 1 Edison hand pump. 1 patent caulking hammer. 18 shovels. 15 picks and handles. 1 pair nippers. 1 belt punch. 2 tape lines. 1 pike pole. 1 plumber's furnace and nipping outfit. 1 grindstone.
1 jack plane.	22-inch dies and stock.
2 braces and bits.	11-inch die and stock.
11-inch auger. 1 spirit level.	12-inch pipe cutter.
	11-inch pipe cutter.
2 iron bench vices.	2 pair 2-inch tongs.
1 carpenter's bench and vice.	
MATERIAL A	T TOOL HOUSE.
63 sprinkling stand nines	0 lantorns

MATERIAL AT TOOL HOUSE.				
63 sprinkling stand pipes. 23 globe valves for sprinkling stand pipes. 6 dozen 2-inch elbows. 222 feet 2-inch iron pipe. 118 one-half inch corporation cocks. 120 five-eighths inch corporation cocks. 75 three-fourths inch corporation cocks. 75 one-inch stop cocks. 40 three-fourths inch stop cocks. 36 brass hydrant tops. 1 dozen old hydrant valves. 40 lbs. old nuts and bolts. 1 keg 20 d nails. 1 keg 10 d nails. 4 galvanized baleing buckets	9 lanterns. 1 five-gallon oil can. 1 two-gallon oil can. ½ dozen flat files. 25 feet old chain. 1 iron tea kettle. ½ bale caulking rope. 10 lbs. solder. 75 lbs. of lead pipe. 1 ton nut coal. 1 barrel coal oil. 1 wood stove. 30 joints stove pipe. 1 platform Fairbank scale. 5 cords iron wood for mauls.			

Table No. 15.

Showing Material and Supplies on hand January 1, 1890.

	GATES.	
13— 6-inch. 14— 8 "	2—10-inch. 21—12 "	6—16-inch. 4—24 "
2-36-inch. 2-24 " open. 13-4 " 24-6 "	SLEEVES. 14— 8-inch. 2—10 " 20—12 " 16—16 "	9-24-inch. 2-18 " 1-36 "
6—12x12-inch. 5— 8x 8 " 2— 8x 4 " 25— 6x 6 " 5—16x 8 " 11— 8x 6 "	CROSSES. 1—16x12-inch. 1—24x 8 " 8—6x 4 " 1—16x 6 " 1—16x10 " 1—10x 4 " TEES.	2—12x 8-inch, oblique. 4—16x16 " 1— 8x10 " 7— 8x12 "
15— 6x 6-inch. 6— 8x 6 " 5—12x 6 " 5— 8x 8 " 20—12x 4 " 4—10x 4 " 2—16x 4 " 12— 8x 4 "	10— 6x 4-inch. 1—24x24 " 2—24x 3 " 2—12x12 " 1—10x 6 " 1-16x 8 " 1—16x12 " 2—16x16 "	1-16x 3-inch. 2-12x 3 " 2-8x 3 " 3-6x 3 " 5-6x 6-inch Y. 3-12x12 " "
29— 4-inch. 12— 6 " 20— 8 "	19—10-inch. 34—12 " 25—16 " REDUCERS.	7—24-inch. 1—18
6—8 to 6-inch. 5—10 to 6 " 6—12 to 6 "	7— 6 to 4-inch. 1—16 to 14 " 1—24 to 10 "	1—16 to 8-inch. 2—24 to 12 " 1—24 to 16 "
CONES. 69 New. 5 Old.	BENDS.	HYDRANTS. 64 New. 27 Old.
11— 4-inch ¼ bends. 14— 6 " ¼ " 2—10 " ¼ "	4-12-inch ¼ bends. 16-8 " ¼ " 29-10 " ¼ "	6-12-inch ½ bends. 1-24

COVERS.

63 Cast iron gate covers.

23 Cast iron hydrant covers.

HYDRANT BRANCHES.

4 Extension hydrant tops.

TOOLS	FOR LAYING PIPE.
60 Shovels in good order.	10 Old blocks.
50 Shovels in bad order.	1 Clopping axe.
232 Picks.	10 Sheeting caps.
90 Pick handles.	15 Steel wedges.
13—14-pound sledges.	2 Sheeting pullers.
3-10	16 Iron mauls.
3—13 " "	20 Wood mauls.
1—11 " "	5 5-Gallon oil cans.
100 feet rubber belting.	3 Quart cans.
6 bales caulking rope.	3 Grapples.
10 tons lead.	219 Brass screen.
10 pairs rubber boots, long.	1000 lbs. scrap iron.
15 lantrens.	3 1-gallon oil cans.
10 red globes.	2 squirt cans.
4 white globes.	6 water pails.
3 hand axes.	5 dippers.
4 hand saws.	27 chum drills.
4 gasoline torches.	8 jumper drills.
2 crosscut saws.	3 plows.
9 set caulking tools.	300 feet 1-inch rope, old.
12 road scrapers.	2 wheelbarrows, bad.
2 spoon scrapers.	154 pounds % chains.
25 tool boxes.	15 maul rings.
9 coal boxes.	3 monkey wrenches.
9 furnaces complete.	1 electric battery.
10 sets double blocks and falls.	4 clothes lines.
7 wheel derrick.	1 tape line.
3 crank "	2 brands.
6 tripod "	6 Edison pumps.
5 striking hammers.	11 diaphragms.
15 crowbars.	

6 pieces 6-inch pipe. 31 10

12 73 16 24 17 36 15 pieces 8-inch pipe 4 feet and over. 10 10 66 12

46 16 24 36 66 66 66 66 5 66 66 66

LUMBER. 25,000 feet.

Table No. 16.

Showing in Detail Inventory and Supplies at Pumping Station No. 1, January 1st, 1890.

OFFICE.

2 desks. 1 book case. 1 water cooler. 1 Tabor indicator. 9 record books.

1 pair shears. 1 work bench. 1 lead pot. 1 quart cup. 35-gallon cans. 5 10-gallon cans. 5 copper oil cans. 24-gallon oil tanks. 1 hand saw.

1 slate. 1 stool. 1 cuspidore. 2 ink wells. 1 drafting scale. 1 duster.

2 gas lamps and hose.

Stationery.

2 chairs.

TOOLS AND SUPPLIES.

30 gallons engine oil. 5 valves for condenser. 2 sledges. 2 stedges. 2 jack screws. 1 iron wedge. 1 blasting battery. 1 registering gauge and clock.

1 iron vise. 1 surface plate. 2 gasoline torches.

1 alligator wrench. 11 gate wrenches.
4 screw wrenches.
4 revolution counters.
50 feet ½ inch M rope.

1 copper hammer. 11 wire screen iron frames. 1 grabe for hoisting screens, 1 extra crank for same. 216 feet 5-16 chain.

1 hand saw 5 bark rakes. 2 stoves and pipes. 1 grind stone.
2 pairs pipe tongs.
5 cold chisels.

1 stove poker.
1 pipe wrench.
4 valve wrenches.
12 assorted wrenches.

1 dredging fork. 1 2% nozzle.

2 branding irons.

3 assorted files.
3 caulking irons.
1 pair tongs.
3 rachets.
7 drills.
7 pressure guages.
1 pan for tallow.
3 pair rubber boots.
1 pair breast boots.
1 set 12-inch blocks.
1 set 10 " "
1 set 8 " "
100 feet 1½ inch rope.
50 feet wire rope.
25 feet %-inch chain.
2 16 feet ladders.
1 copper bar.
250 gallon oil cans.
1 coal scuttle.
75 feet %-inch hose.
1 paint brush.
12 gallon can.
8 kegs drifts.
2 pick poles.
3 shovels.
6 picks.
2 scoop shovels.
2 ice chisels.
4 ice rakes.
7 brass valves.
17 old oil cups.
25 pounds patent greas

1 axe.

40401 1 1
1 3-16-inch rod.
2 packing hook.
1 cant hooks.
11½ inch nozzle.
2 chains.
11 socket wrenches.
3 glass tubes.
6 oil cups.
16 pounds star candles.
10 pounds rubber packing.
25 pounds hemp packing.
40 new rubber valves.
8 pounds tallow.
12 pounds square flax packing.
3 stone drills (steel).
1 screw driver.
3 steel bars.
1 steam whistle.
80 pounds cotton waste.
18 tons Illinois coal.
1 box brass polish.
6 large globes.
1 box %-inch round packing.
12 feet %-inch round packing.
20 pounds 10d nails.
10 pounds 20d nails.
1 spool piston packing.
50 pounds babbit.
3 pounds sheet copper.
1000 pounds scrap iron.
40 gallons gasoline.
1 gallon lard oil.
100 feet ¼-inch wire rope.

PUMPS, WATER WHEELS, ETC.

3 horizontal double acting piston pumps (2 each),
1 upright double acting piston pump (2 each),
3 60 upright American Turbine water wheels.
2 54 upright New American Turbine water wheels.

STEAM PLANT.
2 engines rated at 300 horse power each.
1 Knowles air pump and condenser.
1 dup
6 steel boilers 16x5 feet.
1 kor
1 set engineer's oilers.
2 clin
1 oil cup filler.
1 scrr
1 oil pump.
2 coa
5 a55orted wrenches.
1 the
7 pressure guages.
1 the
1 vacuum guage.

2 horizontal single acting plunger pumps

2 thermometers.
1 duplex Knowles feed pump.
1 Kortings indicator.
2 clinker bars.
1 scraper.
2 coal scoops.
1 wheel barrow.
1 flue cleaner.
1 2-inch water meter.

Table No. 17.

Showing in Detail Inventory of Tools and Material on Hand at Pumping Station No. 2.

1 fire alarm gong. 75-gallon oil tank. 250-gallon oil tanks. 1 pressure gauge. 1 revolving counter. 1 flue cleaner. 2 tons youghoney lump coal. 1 desk. 2 chairs. 3 record books. 1 duster. 2 cuspidores (wood.) 800 register gauge blanks. 1 lawn mower. 1 extension ladder. 1 crosscut saw (old.)
1 buck saw (old.)
2 ice saws.
1 hand saw. 1 sledge (old.) 2 axes 1 hatchet. 1 copper hammer. 1 20-inch monkey wrench. I hand wheel for gate. 8 open wrenches. 1 box wrench.

3/2 barrel W. W. oil.
112-inch monkey wrench.
2 R. R. wheel barrows.
1 stone wheel barrow.
1 hoe.
1 wood mallet.
4 rack rakes.
1 ice scoop.
2 pick poles.
8 ice picks.
2 ice shovels.
14 ice chisels.
2 ice hooks.
2 ice hooks.
2 ice hooks.
2 ice tongs.
2 rubber scrubbers.
2 rubber scrubbers.
3 pair rubber boots (new.)
5 kegs 12d nails.
4 whitewash brushes (old.)
26 bars soap.
5 ponnds soda ash.
7 lights of glass, 10x16.
24 window sash (old.)
50 feet 1-inch rope (old.)
4 3-gallon cans.

1 socket wrench.	11-gallon can.
2 alligator wrenches.	2 paint brushes (old.)
4 flat files (new.)	2 kerosene lanterns.
63-corned files.	1 1-gallon measure.
1 long steel bar.	
	1 copper oiler.
1 short steel bar.	2 brass oilers.
1 steel drill.	2 brooms.
1 valve wrench.	15-16 grabe chains.
1 1½-inch wrench.	4 long handled shovels.
2 2-inch augers.	2 new jack screws.
3 packing hooks.	11-gallon iron pail.
1 bench vice.	1 drinking cup.
1 patent screw driver.	2 sets 4-inch blocks.
1 carpenters' square.	50 pounds soap stock.
2 scoop shovels.	1 extra water wheel step.
5 fire pokers.	1 extra water wheel gate.
25 pounds No. 1 waste.	1000 common brick.
3½ square yards sheet.	150 feet 1½-inch rubber hose for water.
5 pounds sulpher.	35 feet 11/4-inch rubber hose for steam.
50 gallons West Virginia oil.	25 feet 14-inch rubber hose for steam.
175-inch American turbine water wheel.	15 feet 1-inchch rubber hose for steam.
1 single acting 5 plunger pump.	10 pounds Clinton brand packing.
2 tubular boilers, 14 feet by 42 inches.	70 pounds hemp packing.
1 ring and segement for gate.	1 gear and penion for gate.
1 pair extension pipe tongs.	1 hoisting rigging for screens.
6 extra brass valve seats.	1 adz.
34 extra rubber valves.	30 1½ x36-inch drift bolts.
2 pieces 10x12x24 lumber.	25 %x15-inch dlift bolts.
	4 pieces 8x8x16 lumber.
6 " 10x12x22 "	6 " 3x12x16 "
1 " 10x12x22 " 6 " 10x12x16 " 1 " 10x12x10 " 1 " 8x8x16 "	3 " 3x12x16 ",
1 " 10X12X10" "	
1 " 8x8x16 "	12 " 2x12x16 "

34 extra rubber valves. 2 pieces 10x12x24 lumber. 1 "10x12x22" 6 "10x12x16" 1 "10x12x10" 1 "8x8x16"	30 1½ x36-inch drift bolts. 25 % x15-inch dlift bolts. 4 pieces 8x8x16 lumber. 6
	de No. 18.
	hingle Creek Pumping Station.
	HINE ROOM. ,
2 15,000,000 gal.Worthington high dut 2 boiler feed pumps. 2 air compressers. 1 25-horse power Wright engine. 2 sets oilors. 1 Edison dynamo. 1 switch board. 200 16 candle power lamps 20 50 """	y pumps. 6 100 candle power lamps. 3 indicators. 1 brush broom. 1 dust pan. 6 cuspidores. 100 ft. 1½ fire hose with reel and nozzle 1 fire alarm gong. 1 registering gauge.
	OFFICE.
1 desk. 6 ehairs.	1 waste basket. 1 rubber ruler.
1 inkstand. 1 box pens.	3 penholders. 1 bottle ink.
*	LER ROOM.
6 9 ft. 6x15 ft. 6 boilers.	2 coal picks.
6 scoop shovels.	3 coal cars. 1 Fairbanks scale.
3 sluice bars. 6 ash rakes.	1 slate and pencil.
50 ft. new steam hose.	1 slate and pencil. 1 reflecting lamp.
50 ft. old steam hose. 2 wheelbarrow.	100 ft. 1½ hose with reel and nozzle. 2 climber hooks.
6 flue cleaners.	1 steam flue cleaner.
GA?	TE HOUSE.
21 wire screens.	1 pike pole.
2 hand-wheels for hoisting gates. 1 set iron blocks.	100 feet rope. 1 ice rake.
2 ice chisels.	A THE OTT. THE OWN
	S IN OIL ROOM.
2 50-gallon oil tanks. 1 barrel gasoline oil.	1 box candles. 6 lights glass.
3 barrels cylinder oil.	50 lbs. asbestos packing.
12 lanterns.	25 lbs. hemp packing.
8 brooms. 4 boxes cleaning compound.	10 lbs. plumbago. 10 rubber gaskets.
30 gallons machine oil.	1 box soap.
2 soap cups. 4 scrubbing brushes.	1 box soap. 2 sponges. 2 mop sticks.
4 scrubbing brushes.	2 mop sticks. 1 10-gallon can.
4 mop handles. 2 1-gallon oil cans.	1 diving apparatus, complete.
2 pressure gauges.	1 work bench.

Table No. 19.

Showing how City Water may be Wasted. Gallons and Hundredths of Gallons of Water that will be Discharged per Minute Through Various Sized Orifices at the Heads Stated.

	eure er ni er				Q	IAMETERS	S OF ORIE	TCES IN 1	DIAMETERS OF ORIFICES IN INCHES AND FRACTIONS OF AN INCH.	TD FRACT.	IONS OF A	N INCH.			
HEAD.	Press	1-64	1-32	1-16	1/8	74	%%	/s	288	%4	1	11/4	11/2	134	c:
30 feet	8.66	0.03	20.0	0.30	1.20	5.10	11.70	30.60	32.20	46.20	82.30	128.40	184.80	252.00	328.80
40 feet	17.32	0.03	0.11	0.45	1.80	7.40	16.30	29.60	45.50	65.50	116.50	182.40	261.60	256.40	465.60
60 feet	25.99	0.03	0.14	0.55	5.30	8.90	20.00	35.60	57.70	80.30	142.80	223.20	320.40	436.80	571.20
80 feet	34.65	₹0.0	0.16	0.65	3.60	10.30	23.20	41.20	64.30	92.60	164.40	258.00	370.80	505.20	658.80
100 feet	43.31	₹0.0	0.18	0.75	3.90	11.50	25.90	46.10	72.00	103.70	183.60	288.00	415.20	565.20	738.00
120 feet	51.98	0.05	0.19	0.78	3.10	12.60	28.30	50.40	78.70	113.50	201.60	315.60	453.60	07.40	807.60
140 feet	£9.09	0.05	0.21	0.85	3.40	13.60	30.60	54.50	85.20	122.40	217.20	310.80	490.80	04.899	872.40
150 feet	64.97	0.05	0.22	88.0	3.50	14.10	31.70	56.40	88.20	127.20	925.60	352.80	507.60	691.20	902.40
155 feet	28.82	90.0	0.24	0.95	3.80	15.20	34.20	61.00	95.30	136.80	243.60	380.40	548.40	748.80	975.60
200 feet	86.83	90.0	0.26	1.02	4.10	16.30	36.60	65.20	101.80	146.40	260.40	416.80	588.00	798.00	1,042.80
235 feet	101.08	20.0	0.28	1.12	4.50	17.90	41.30	71.50	137.70	185.80	285.20	445.90	642.30	871.30	1,140.80



ANNUAL REPORT

OF THE

CHIEF ENGINEER OF THE FIRE DEPARTMENT

OF THE

City of Minneapolis

TOGETHER WITH THE REPORT OF

SUPERINTENDENT FIRE AND POLICE TELEGRAPH

--- AND ---

VETERINARY SURGEON,

For the Fiscal Year Ending December 31, 1889.

MINNEAPOLIS: HARRISON & SMITH, PRINTERS. 1890.

FIRE DEPARTMENT.

Frank L. Stetson, - - Chief Engineer.

AUGUST H. RUNGE, - - - First Ass't Engineer.

Peter J. Kenney, • - - Second Ass't "

Z. T. Morrison, - - - Sup't Fire Alarm Telegraph.

ED. W. LAMBERT, - - Ass't Sup't Fire Alarm Telegraph.

Hosea S. Tuttle, - - - Master Mechanic.

John W. Horton, - - Veterinary Surgeon.

F. M. SNYDER, - - - Department Secretary.

W. A. CARLETON, - - - Assistant

FIRE DEPARTMENT COMMITTEE OF CITY COUNCIL.

CHRISTIAN ELLINGSEN, Chairman.

WM. B. WOODWARD. JAY W. PHILLIPS.

ERICK RHODE.

FRED C. BARROWS.

ANNUAL REPORT

OF THE

CHIEF ENGINEER OF FIRE DEPARTMENT.

OFFICE OF CHIEF ENGINEER FIRE DEPARTMENT, MINNEAPOLIS, MINN., January 1st, 1890.

To the Honorable City Council of the City of Minneapolis:

Gentlemen—In compliance with law, I have the honor herewith to submit to you the annual report of the fire department, the same being my eighth annual report, and the eleventh of the paid fire department of the City of Minneapolis. A complete record of the operations of the department and expenditures commencing January 1st, 1889, and ending December 31st, 1889, is embodied in this report.

The fire waste for the year ending December 31st, 1889, has been comparatively light, considering the property involved and number of alarms given. The total loss on buildings and contents amounts to about \$275,000.00. There has been 484 alarms during the year. This gives an average loss of about \$560 for each fire. There has been two fires during the year where the

loss exceeded the sum of \$10,000.

396	fires occurred	where the	loss was	under	\$100
29	* 6	6.6	4.6	from \$100	to 200
11	66	66	4.6	200	300
9	64	6.6	4.6	300	400
8	6.6	6.6	4.6	400	500
3	6.6	6.6	4.4	500	600
4	66	4.6	6.6	600	700
2	6.6	6.6	6.	700	800
1	6.6	4.6	6.6	900	1,000
9	6.6	6.6	6.6	1,000	2,000
5	4.6	4.6	4.6	2,000	3,000
2	6.6	6.6	4.6	4,000	5,000
$\bar{2}$	6.6	6.6	66	5,000	6,000
ī	6.6	4.6	6.6	8,000	9,000
$\frac{1}{2}$	44	66	66	over 10,000	2,000

MANUAL FORCE.

There has been an increase of nineteen in the manual force in the last year. The force now consists of 204 officers and men.

APPARATUS.

The apparatus of the department has been increased during the year by the addition of one hose carriage and three fuel wagons. The apparatus of the department is classified as follows: Six engines, first-class; seven engines, second-class; one engine, second-class (old in reserve); fifteen hose carriages, six chemical engines, five hook and ladder trucks and one in reserve, one supply wagon, three fuel wagons, one fire alarm telegraph wagon, four chiefs' buggies, four chiefs' sleighs, sixteen exercising wagons and seventeen set of bobsleds. All of the apparatus is in good order, with few exceptions. It will be necessary to make some repairs and paint some of the oldest apparatus during the year.

REPAIR SHOP.

The need of a repair shop and the reasons why it is desirable to establish one, have been given fully in former reports, and need not be repeated here.

The shop was completed in March, 1889, is a two-story brick building, 55x65. The first floor is occupied by machine shop, blacksmith shop, paint shop and engineroom. The second floor is occupied by woodworking shop, harness shop, pattern shop, hose depot and store room. There has been employed during the past ten months an average of sixteen men daily, detailed from the permanent force. During this time they have made all needed repairs to apparatus, hose and harness of the department, and in addition thereto made a large quantity of new work. It has thus far come up to the expectations of the board of engineers. The amount estimated for equipping and fitting up the shop was \$5,000, but of this sum only \$3,734.21 has been expended up to date. It is probable that the further sum of \$1,000 will equip it sufficiently to do such work as it is proposed at present to undertake.

The following list of the principal machines and tools will serve to indicate the character of the equipment, and the capacity of the shop: One twelve horse-power steam engine, cylinder 7x10 inches; one twenty-five horse-power, horizontal, tubular boiler; one 26x26 iron planer, 5 foot table; one twenty-four inch swing engine lathe, 12 foot bed, turns 8 feet; one sixteen inch swing engine lathe, 6 foot bed, turns 3½ feet; one twenty inch Bickford upright drill; one upright hand drill; one No. 0 Sturtevant pressure blower; two blacksmith forges; one furnace for heating tires; one thirty-six inch band saw; one wood lathe; together with the numerous smaller tools and appliances which are found in every well equipped machine shop.

The following is some of the work done, with cost of material, labor not

added:

Engine No. 1 has been repaired, tires re-set, piston-rods and valve-stems turned up true. No. 1 Hose Cart has had a new pole and tires re-set.

Engine No. 3 was overhauled and relief valve attached. Engine No. 4 was overhauled and relief valve attached. Engine No. 5 was overhauled and new brake attached.

Engine No. 6 had a general overhauling, pumps re-bored, new suction

attached and re-painted as good as new. Engine No. 7, boiler condemned and is now in the shop.

Engine No. 8, tires re-set, relief valve attached, etc. Engine No. 9, some slight repairs and tires re-set.

Engine No. 10, has had a new set of valves, new air-chamber and other repairs.

Engine No. 11, new relief valve and circulating pump overhauled.

Old Engine No. 11, thoroughly overhauled and re-painted.

Engine No. 14, new set valves.

All of the hose carriages have been repaired, new brakes attached and All the exercising wagons have been re-built and re-painted. All the hook and ladder trucks have been overhauled and many new ladders The chemical engines have had more or less repairs. The fire alarm telegraph wagon has been re-built. The chief's and assistants' buggies have all been overhauled, repainted and new wheels furnished.

The old No. 3 Truck has been re-built practically new. New axles and wheels, new frame, ladders mostly all new. All brass and nickel-plated trimmings new. It has been re-painted and is as good as new. Cost of ma-

terial, paint included, \$202.80. Hours worked on same, 3,099.

The old Hose Carriage No. 3 has been re-built, new wheels and axles, new springs and re-painted, at a cost of \$138.91 for material; labor, 927 hours.

Two new buggies have been built at a cost of \$142.78.

The No. 3 Chemical Engine is now being re-built. It was a two-wheeled engine for one horse. When completed it will answer for a chemical and supply wagon combined. Cost of material, \$200.

Two new single and three set of double harnesses have been made, besides

a great amount of repairs at a cost of \$193.92 for stock.

Besides the repairs to apparatus, etc., there has been a great amount of work done for the fire alarm telegraph, in the way of posts for fire alarm boxes and hard rubber terminals for connecting the cables above ground. The cost of this is included in the expense of the shop.

The total cost of material used for repairs to apparatus, harnesses, and new work amounts to \$2,507.98. The total hours of labor performed is 17,786,

which at the rate of 30 cents per hour amounts to \$5,335.80.

HORSES.

The horses in active service number one hundred and fourteen (114), fifteen (15) of which have been purchased during the year at a cost of three thousand two hundred and thirty-five dollars (\$3,235). There has been one death among the horses during the year, and there has been ten horses exchanged and sold that were unfit for further service, for the sum of seven hundred and twenty-five dollars (\$725). We have several more horses that are used-up for the department service that should be exchanged for new ones, or will sell to good advantage to the city. The average cost of hay during the year was seven dollars, ninety-four and one-half cents per ton (\$7.94); oats, twenty-eight cents (28) per bushel. The actual cost of forage for the year was seven thousand, four hundred and six dollars and sixty-eight cents (\$7,406.68); sixty-four dollars and ninety-seven cents (\$64.97) per horse for the year; one dollar and twenty-five cents (\$1.25) per week per horse; or eighteen cents per day per horse. The accompanying report of the department veterinary surgeon gives statistics as to the diseases which have afflicted the horses of the department during the year. The average number of horses in the hospital during the year has been thirteen. The entire cost of medicine, liniment, etc., was one hundred and ninety-three dollars and eighty-three cents (\$193.83); salary of veterinary surgeon, three hundred dollars (\$300), making a total cost of four hundred and ninety-three dollars and eighty-three cents (\$493.83).

HOSE.

We have twenty-seven thousand, three hundred and fifty (27,350) feet of hose—of this amount nineteen thousand and fifty (19,050) feet of rubber hose, in good condition, seven thousand and fifty (7,050) in fair condition, and one thousand two hundred and fifty (1,250) feet of cotton in fair condition. There is also two thousand two hundred (2,200) feet of good chemical hose in service. There has been two thousand one hundred and fifty (2,150) feet of hose condemned and turned over to the water department for street sprinkling purposes. It will be necessary to purchase (8,000) feet of hose by April 1st, 1890, in order to have each company equipped with first-class hose.

FIRE ALARM TELEGRAPH.

This branch of the department has continued to work satisfactorily during

tne year

We have purchased during the year, fifteen (15) fire alarm boxes, at a cost of three thousand, one hundred and twenty-five dollars (\$3,125). Ten keyless doors have been placed on boxes in the business district at a cost of four hundred dollars (\$400). The cost of battery supplies has been eight hundred and fourteen dollars and ninety-three cents (\$814.93); repairs, extensions and changing of lines, nine thousand and seventy-five dollars and ninety-three cents (\$9,075.93); new poles and wire, three hundred and forty-eight dollars and five cents (\$348.05). A large amount of work has been done in the way of placing the fire alarm wires underground. Cables have been placed underground in iron pipes and wooden boxes, leading to all the alarm boxes that are located a block distant from the streets where the main conduit is laid, also connections made to man-holes, and iron posts set for all boxes on line of conduit. All of the work has been done by the superintendent of fire alarm telegraph and men detailed from the force, except excavating and repaving. The iron posts upon which the boxes are to be placed are eight inches square, cast hollow, seven feet and six inches long, with base fourteen inches square, that sets on the curb or sidewalk. Two feet of the posts below the base sets in the ground and is cemented there. This makes them very firm. The cables are run to the post through iron pipe, and the wires are connected to a hard rubber terminal. This brings the end of the cable above ground, and by this means it can easily be tested by removing the door of the post, and avoids opening manholes and breaking connections in cable underground for testing. The cost for labor, paving, lumber, pipe, etc., amounts to one thousand two hundred and fifty dollars and sixteen cents (\$1,250.16). Forty-six thousand one hundred and ten (46,110) feet of cable have been purchased at a cost of seven thousand, nine hundred and thirtyfive dollars and eighteen cents (\$7,935.18). By February 1st, 1890, we expected

to have our lines working underground on Hennepin. Nicollet and Washington avenues. Fourth street and Third avenue north, but we have received notice from the Minneapolis Street Railway Company that the Dorsett system of conduit will have to be lowered six feet on all streets and avenues where the cable line crosses it. It will be impossible for us to go on with the work of placing the cables underground without a large additional expense, until the conduit is lowered at the points of crossing the cable lines. The system being put in is original with the department, so far as running to boxes and making connections to ends of cables above ground. We are sparing no time or pains to make the system as perfect as possible. It will cost about two thousand dollars (\$2,000) to complete the system as far as contemplated.

The following is a summary of labor performed upon the fire alarm and police telegraph lines, by and under the supervision of Z. T. Morrison:

New poles re-set		100
Old poles re-set		50
New overhead wire strung, miles		10
Signal stations changed		10
New signal boxes placed in service		15
New gongs placed in service		2
Relay bells placed in service.		1
Iron and wooden asphalt treated conduit and laterals la	aid, feet	4.000
Standard underground two and six wire cable laid, feet.		6,000
Single wire, feet		
Iron posts set		18

The telegraph department is composed of the following: 124 miles of wire and poles, 1 10-circuit repeater, 510 cells of battery, 182 fire alarm boxes, 22 engine house gongs, 10 engineer's gongs, 1 4-circuit repeater, not in service, 1 bell striker, not in service.

It will be necessary to purchase twenty new boxes this year. For a detailed statement I would refer you to the annual report of Superintendent

Morrison.

WATER SUPPLY.

The water supply for fire extinguishing purposes was improved during the year by the addition of one hundred and fifteen (115) hydrants and nine (9) miles one thousand and fifty-four (1,054) feet of water mains. The pumping station at Shingle creek is completed. The city at this writing is supplied with water from this station by two Worthington Compound Duplex steam pumps, with a capacity of fifteen million (15,000,000) gallons each. This, with the East and West Side stations, gives a total capacity of eighty million

(80,000,000) gallons daily.

I beg leave to again call your attention to the necessity of an increase in size of the water mains in the central portion of the city. The department has always experienced a great deal of trouble on Nicollet avenue by suctions filling up for the first half hour with sand, sawdust, bark, etc. I would most respectfully recommend that a twenty-four inch main be substituted for the six inch on Nicollet avenue from Third street to Twelfth street, and connected with the sixteen inch main on Third street, and the twenty-four inch main on Twelfth street, and connected to all mains crossing Nicollet avenue. Also that two hydrants be set at each street crossing and two in center of each block on opposite sides of avenue, all connected to the twenty-four inch main. Unless this is done the work of the department cannot be satisfac-I would further recommend that all mains crossing each other be connected, instead of running over or under, thus doing away with the duplex system, as contemplated by a former engineer of the water department. This system is not practicable, and would not be if completed. By connecting all the mains together, it would give a free and perfect circulation, and when a heavy draft is made at any one point the water will be supplied through all mains, instead of, as at present, by two or three mains running into that district, fed a long distance without any re-enforcement. I would also recommend that in the center of the city several connections be made with not less than six or eight inch pipe, with gate direct from main to sewer, and that they be opened once a week to flush the mains, as by this means we will get clean water. Would also recommend a systematic ncrease in number of hydrants in thickly settled portion of the city.

The water department has laid during the year 52,574.3 feet of mains, as follows:

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12							 	 	 	,	 	 	 	 	 	 10,	435.9	9	4.6			1	6.6	4	,155.9	. 6	
16	66						 	 				 	 	 	 	 11,	795.5	5	66			2	6.6	1.	,235.5	6.6	
24	66						 	 	 			 	 	 	 	 9,	438.1	Ĺ	66			1	6.6	4.	,158.1	6.6	
																		-						-			
		T	o'	ta	ıl	s.	 				 	 	 	 	 	 52.	574.3	3				9			1.054		

This makes a total of about 150 miles of all kinds of water mains laid in the city. The total number of hydrants in use is one thousand seven hundred and seventy-seven (1,777). The whole number of hydrants in use is classified as follows:

Flush or surface. Post hydrants.	
Total	

FIRE STATIONS.

The usual incidental work of repairs and improvement in construction has been carried on at the several houses, embracing the renewal of floors and floor-joists. New floors have been laid in several houses at a cost of \$2,272.83. The lumber used was Georgia pine, three inches thick, six inches wide, of various lengths, beveled spikes countersunk 1½ inches, plugged, caulked and pitched to make it water tight, same as a ship's deck. This floor will last from eight to ten years. With common pine, we had to renew the floors once every year. All of this work was done by members of the force. There are five houses to have new floors, and 50,000 feet of Georgia pine has been ordered for same.

This is the first year in the past six, but that we have built one or two This year there seemed to be no available funds for that purpose, although the legislature authorized bonds to the amount of seventy thousand dollars (\$70,000.00) to be expended for permanent improvements in the fire department. There should be built this year at least two outside stations

and one central station. The rapid growth of the city demands it.

CASUALTIES.

The following is a list in detail of casualties at fires, to others than members of the department:

April 17th, 1889, Mrs. C. Elliott, residing at 729 Washington Avenue North, was burned by gasoline, from the effects of which she died the next day.

July 7th, 1889, at 3500 Eighteen-and-a-half Avenue South, a boy twelve years old went into a barn to save a horse, and was burned to death.

November 30th, 1889, corner First Avenue South and Fourth Street, seven persons were killed; four on fire-escape by one falling and knocking off three others, two fell in trying to escape by telegraph wires, and one slipped and fell from sixth story window and was instantly killed.

PERSONS RESCUED.

The following is a list of cases occurring during the past year, in which persons in peril have been rescued by members of this department:

February 5th, 1889, at 209 Nicollet Avenue, three persons were rescued from

a three story building, by members of H. & L. Co.'s Nos. 1 and 2.

November 30th, 1889, corner of Fourth Street and First Avenue South, eight story brick building, known as the Tribune Building, twenty-seven persons were rescued from the sixth and seventh stories by means of ladders, after all other means of retreat had been cut off.

ROLL OF MERIT.

There has been recorded on the roll of merit for the year 1889, the names of Nicolay Jurgens and Jno. F. Hoy, they having performed heroic services at the Tribune Building fire. November 30th.

ACCIDENTS TO MEMBERS.

The accidents to members of the department have been thirty, seven less than last year. Unfortunately, one was of a very serious nature. James Quigley, assistant engineer of engine Co. No. 1, while operating engine at a fire, August 3d, accidently caught his right arm in fly wheel and crushed it so that it was

necessary to amputate it two inches from the shoulder. The injuries received have caused him to become physically unable to perform active duty. He is still on the roll at half pay, and is also placed on the pension roll of the fire department relief association, commencing October 1, 1889. Charles Hunstock, who has been in the service fifteen years, has lost the use of his right hand and was placed on the pension roll, October 1, 1889.

The following is a list of accidents that have occurred to members of the

department during the past year:

CASUALTIES.

Date.	Names.	Compani	es.	Box.	Injuries.
1889.					
Jan. 9	H. W. Cole	Chemical Co.	No. 1	625	Sprained ankle.
13		Engine "	" 14		Injured in quarters.
28	W. C. Kelley	H. & L. "	" 3	219	Left thigh injured.
Feb. 3	T. C. Horton	Engine "	" 7	219	Exposure.
Mar. 29	Sam Lockhart	Engine "	" 10		Injured in quarters.
April 2	W. H. McDonald	Engine "	" 11	43	Sprained ankle.
May 3	Dennis Gorey	H. & L. "	" 2	9	Injury to testicles.
June 1.	C. L. Mitchell	Engine "	" 8	9	Shoulders, head and lip cut.
20	Chas. A. Saunders	Engine "	" 12		Kicked by horse in quarters.
22	Wm. G. Volkert	H. & L. "	" 4		Two fingers bruised.
23	Frank Vezina	Engine "	" 11	134	Left wrist sprained.
July 16	G. F. Wilson	H. & L. "	" 2		Arm bruised in repair shop.
7	F. W. Vogel	H. & L. "	" 4	438	Exposure.
Aug. 3	J. M. Quigley	Engine "	" 1	16	Rightarm crushed; amputation
15	J. J. Murphy	Chemical "	" 2 " 1		Ankle sprained in quarters.
22	Robt. Ehernburg	H. & L. "	" 1		Knee sprained in quarters.
26	W. M. Benolkin	Engine "	" 12	16	Bruised back.
Sept.18	S. E. Hutchinson	H. & L. "	" 1	19	Cut by glass.
29	E. Felsing	H. & L. "	" 1	41	Cut by glass.
29	Nic. Jurgens	H. & L. "	" 1	41	Cut by glass.
Oct. 1	S. H. Cryrier	Engine "	" 12	Still	Toe crushed.
4	J. A. Bray	Engine "	" 12	134	Hands and face burned.
Nov. 6	Ben Wood	Engine "	" 7		Sprained hand in quarters.
29		Engine "	" 3	316	Bruised shoulder and hip.
30		Chemical "	" 3 " 2 " 1	8	Toe crushed by brick.
30	Jno. F. Hoy	H. & L. "	" 1	8	Hand burned.
Dec. 3	Ed Prescott	Chemical "	" 1	14	Nose cut by glass.
4	Nich. Mangen	Engine "	" 12	136	Cut by glass.
14	N. Thielen	Engine "	" 2	143	Nail in hand.
17	Ira Simons	H. & L. "			Injured in quarters.
20	J. W. Manning	Engine "	44 0	139	Nail in hand.

During the year the Relief Association connected with this department has paid, besides accident claims, seventeen claims for sickness, amounting to \$1,639.79.

During the year eleven members of the department were promoted, two suspended with loss of pay, three fined, four fined and transferred, five reduced to an inferior position for cause, three discharged, five resigned in good standing and sixteen were reprimanded. The discipline and efficiency of the force will compare favorably with other years.

FIRES AND ALARMS.

During the twelve months the department has responded to four hundred and ninety-five alarms of all classes. The alarms given are classified as follows: 326 by fire alarm telegraph, 104 stills, 17 by American District Telegraph, 32 by telephone, five personal service, three second alarms, one second and third alarm combined, one general alarm, five special calls and one special call out of the city, answered by Engine Co. No. 4, called to Minnetonka Beach, Major Camp's residence destroyed.

Number of miles run by apparatus to fires, 3,051, making a total distance traveled to and from fires, 6,102 miles, an average of 153 miles to each apparatus. Hose No. 10 traveled the longest distance, 159 miles, H. & L. No. 5 the shortest distance, 9 miles. Hose companies have laid 302,800 feet of hose, or about 57½ miles. Hose No. 1 laid the greatest number of feet, 37,700;

Hose 15 the least number, 5,950 feet.

Hook and ladder companies have raised 8,624 feet of ladders and discharged 230 charges of small chemical: the chemical engines have discharged 176 charges from their tanks, making a total of 13,841 gallons of carbonic acid gas used during the year.

Companies have averaged 77 hours and 50 minutes each on fire duty. Supply wagon No. 1 the longest time, 176 hours and 40 minutes; Chemical No. 3 the shortest time, 7 hours and 20 minutes. Total 3,197 hours and 15 minutes' work. Fifty-three rubber covers have been spread.

The following is distance traveled to and from fires by officers of the depart-

ment:

 Chief engineer...
 6,068 blocks or 466 miles, 10 blocks

 First assistant engineer.
 4,868 " 374 " 6 " 6 "

 Second assistant engineer.
 5,002 " " 384 " 10 "

 Total...
 15,938 " " 1,226 " " 2,452 "

There has been only one notable fire during the year—the Tribune build-There comes a time in the history of every city when great fires occur. and in consequence lives are lost and property sometimes extending into the millions is swept away. Human ingenuity has not yet devised any apparatus or plan of action on the part of fire departments that will, with absolute certainty, render such losses resulting therefrom impossible. There are too many factors entering into such circumstances which are entirely beyond the control of fire departments. Carelessness in the use of fires, used either for heating or power purposes, also in the use of and care of inflammable materials may be charged as the initial causes of many fires. Incendiarism, too, with its deft hand and stealthy step, plays a deplorable criminal part in the origin of fires. Lessees and employes, on discovery of fires, neglect to give an alarm promptly to the fire department. They too often try to extinguish them without proper appliances, and in many cases through ignorance and anxiety they accomplish nothing. But, in one way or another, it is the experience of every large city to have destructive fires, and when great fires occur, resulting in large losses, it is customary to attach blame to somebody. The year 1889 has resulted in giving Minneapolis one quite expensive fire, and as a consequence our department and its management have received some blame and censure by the lessors of the Tribune building and others, which blame, however, is not deserved. Let us see in the light of actual facts, which cannot be truthfully contradicted, how much blame we really have earned at this fire. The building was eight stories high, used as a printing establishment, with fifty to sixty people in the sixth and seventh stories at the time of the fire. The night elevator man first discovered the fire on the third floor and gave the alarm to the occurrents and many of fire on the third floor, and gave the alarm to the occupants, and many of them took the elevator and went down and out of the building. Others came down the stairs to the third floor, among them was the editor and a number of reporters who thought they could put the fire out. A bucket or two of water thrown on a fire at its first discovery will, in many instances, extinguish it, but if not done quickly and promptly, it may require thousands of gallons, or even tons, to put it out. The editor went back to the seventh floor and secured a "Babcock." The people remaining on the seventh floor were informed that "the fire was down on the third floor and did not amount to anything-it would be all out in a few minutes." In the meantime the reporters had secured a table and a number of hand grenades, the door where the fire was was forced open, the table applied and the hand grenades thrown with great force and excitement, some through the windows, giving the fire draught, and some on the fire, with as much effect as a corresponding number of goose eggs would have had. By this time the editor with the "Babcock" had arrived on the scene, and the man with the table said: "Somebody go and turn in a fire alarm," and three police calls were immediately sent in. The editor with the "Babcock" extinguisher could not use it, for at that moment the flames burst through the open door, setting the stairs on fire. Of the would-be chief and firemen, some of them rushed through the fire down the stairs, others boarded the elevator and made good their escape to the ground floor, crying "fire." A hack-driver standing a block away heard the cry, and looking in that directior, saw fire in the third, fourth and fifth stories of the building. He ran to the nearest box and turned in the alarm. A man by the name of Holt, who had formerly been employed as elevator man, took the elevator, as soon as the fire-fighters had left it, made a trip to the seventh story and came back with a load of people. He attempted to go again, but could not go higher than the fourth

floor, as the stairs and elevator shaft above were a mass of flame. Some of those remaining in the sixth and seventh stories took to the fire escape, and coming down one man lost his hold, fell and knocked off three others. All were killed. Two others were in a room on the seventh floor, opposite the elevator and stairway. The flames burst through the transom, they went to the window and attempted to escape by means of telegraph wires, but both fell to the engine room roof and were killed. Twenty-eight others went to the east end of the building, or First avenue south side, fartherest from the fire, and waited until the arrival of the aerial ladder. All were rescued, except one, who fell and was instantly killed. Chemical Co. No. 1 started for the fire, one block away, just as the box alarm came to the department, but the fire had made such headway that they could not go up the stairs, only to the bottom of the flight leading to the third floor, on account of debris and tiling They came out and assisted in caring for the unfortunates who had fallen from the fire-escape. At this time engine companies arrived, and before water could be brought to bear on the burning building the flames had spread over the entire eighth story and roof. The alarm was given at 10:17 p. m., and at 10:30 p. m. the sixth and seventh stories were a furnace of fire and the eighth story and roof had fallen. The sixth story was filled with heavy machinery, and when the floor gave way the heavy presses carried fire and everything in their course to the basement. The fire was confined to the one building. The cause of the fire is unknown. The loss amounted to about \$200,000.

Losses occasioned by fire the past year as near as could be ascertained, on buildings,\$121,755.91 and on contents,\$151,119.75, making a total of \$272,875.66 covered by insurance amounting to \$1,181,054. Insurance paid, \$260,000; loss above insurance paid, \$12,875.66; the premiums received by fire insurance companies doing business in the city amount to \$1,018,563,39 for the year of 1889; less \$260,000 losses paid in the same period, gross profits \$758,563,39. Deduct 33\frac{1}{2} per cent. on premiums, claimed as the average cost of transacting the insurance business, \$339,521.13 net profits of \$419,042.26. The following is an exhibit of the losses and insurance for each year, commencing with the

year 1880, with addition of the year 1889:

Year.	. L08868.	Insurance Paid.
Year. 1880	 \$191,442.00	\$168,102.00
1881	 439,421.72	414,901.72
1882	 410,209.67	374,143.56
1883		479,905.11
1884	 234,854.64	177,539.81
1885	 233,349,50	168,673.79
1886	 313,337,16	266,667.39
1887	 1,360,247.61	1,277,540.74
1888	 104,316,00	90,000.00
1889	 272,875.66	260,000.00

EXPENDITURES.

The total expenditures in this department the past twelve months amount to \$240,678.53. For ten months, from March 1st, 1889, to December 31st, 1889, \$202.841.08. The expenses are classified as follows:

ON TOTAL CONTROL OF THE CONTROL OF T	
Salaries	\$182,885.23
Fuel and lights	4,754.01
Expense of horses	8,811.68
Repairs to apparatus and building	7,276,73
Expense of fire alarm telegraph	11,291,66
Storeroom supplies	1,419,13
Property purchased	
Running expenses	
Kunning expenses	3,606.10

 Total
 \$240,678.53

 Expenses from January 1st to March 1st
 37,837.45

CR.

Nine horses sold, money turned over to general fund	\$500.00 46.80 52.20	599.00
Actual exdenditures. Paid out of permanent improvement fund for lot corner James and Fifth avenue N. Plumbing and steam heat plant for Station P.	\$1,400.00 973.46	\$202,242.08
The value of fire department property is estimated as follows:	\$2,373.46 OWS:	
Apparatus and equipments. Buildings. Real estate. Fire alarm telegraph property.	\$139,775.00 149,568.65 199,450.00 47,135.62	-
	\$535 020 27	

For a complete and detailed exhibit of expenditures I would respectfully refer you to exhibits accompanying this report, which I trust will prove satisfactory to your honorable body.

Exhibit A shows the organization, number, location and roster of each company; and the class, manufacture and time of service of each apparatus.

Exhibit B, statement of expenditures, etc. Exhibit C, workings of the department.

Exhibit D, causes of fires, buildings, how occupied, etc.

Exhibit E is the report of the superintendent of fire alarm and police telegraph.

Exhibit F is the report of the veterinary officer, with tabular statement.

RECOMMENDATIONS.

The increase in the number of buildings in all parts of the city, also the increased miles of territory and number of buildings in same, makes it an absolute necessity that the department be increased, in order that it may

keep pace with the rapid growth of the city.

No permanent improvements were made this year in the department, although the legislature ordered bonds to the amount of \$70,000 to be used in the fire department during the years 1889-90. The fire department has failed to receive any of it, and no one seems to be able to explain why. One hook and ladder company and one hose company were added to the service this year. Our department has less men and apparatus and has had more fires and alarms during the past year, than any other city the same size and population in the United States. I would therefore ask your honorable body for the following additions to the force during the present year, or at least as many as the finances of the city will possibly permit, viz:

One engine company with ten men and one hook and ladder company with twelve men, with quarters on Fourth street north. These companies would

be centrally located in the wholesale and business part of the city.

One engine company with nine men, with quarters on Fifth avenue north and James avenue. A company located as above will give protection to a large amount of property, the nearest apparatus to which at present is one and two miles distant.

A lot purchased and house built, and hook and ladder and chemical company located in the vicinity of Portland avenue and Twenty-fourth street.

The old house, corner of Main street and Thirteenth avenue northeast, now occupied by Hose Company No. 2, will have to be re-built and enlarged to accommodate a steamer. If there is not something done soon it will fall down. I have several times called the attention of the council to the condition of this house and the necessity of placing a steamer therein. Some action should be taken in the matter at once.

Two additional men should be added to Hook and Ladder Companies Nos. 1 and 3, respectively, and a chemical engine purchased and placed in the quarters of Hook and Ladder Company No. 3, and operated in connection

with same.

A portable water tower should be purchased and placed in service as soon as possible and three men appointed for the care and operation of the same.

The residence portion of the city must not be lost sight of, particularly the territory built up during the past two or three years. To meet these demands, I would advise that property be purchased in the following localities, and that apparatus and companies be placed in service, if not all during the present year, at as early a date thereafter as possible, viz: Summit and Hennepin avenues, West Thirty-third street and Dupont avenue, East Lake street and Twenty-seventh avenue south, Bloomington avenue and Thirty-second street, Third avenue south and Thirty-eighth street, University

avenue and Nineteenth avenue southeast.

In Boston, New York and Chicago, I have witnessed from fifteen to twenty-five engines at work, all within a distance of five hundred feet of the fire. If twenty engines were at work at a fire in this city, a man would have to walk around several blocks to see them all. The number of hydrants should be increased, particularly in the business portion of the city, or other facilities furnished so that at least double the present number of engines can be placed within a radius of four or five hundred feet. Cisterns should be placed at the street corners throughout the business portion of the city, and connected directly with the water mains, as is done in Chicago. These cisterns would prove of incalculable value to the department, not alone in getting into service in quicker time, but better service would be had from our engines, on account of the shorter leads of hose required to reach the fire, and in addition the apparatus would be more concentrated about a fire, as each cistern would accommodate four engines.

Would also recommend the purchase of twelve life-saving nets and the appointment of two district engineers, furnished with horses and wagons;

also the organization of a salvage corps.

CONCLUSION.

I desire to return sincere thanks to his honor the mayor, to your honorable body the common council, to the comptroller, Mr. Calderwood, to the city treasurer and his assistant, Messrs. Moulton and Modisette, to the officers of the water department, and all other city officials, with whom I have had official dealings, for their uniform kindness and courteous attention, and to the police department and Superintendent Brackett for their assistance at fires. For my faithful and industrious assistant chiefs, I have but praise, and to all other officers and members of this department, I am most grateful for their courage and gentlemanly deportment, and unwavering devotion to duty at all times, in the face of the perils of the service.

To the gentlemen of the fire committee I am under renewed obligations for their kind and courteous considerations shown to the department at all Respectfully submitted, F. L. STETSON, times.

Chief Engineer Fire Department.

Exhibit A.

ENGINE COMPANY No. 1.

Corner of Third Street and Sixth Avenue South.

This is a first-class piston engine, built by the Amoskeag Manufacturing Company, at Manchester, New Hampshire; has been in service six years; weight as drawn to fires, 8,610 pounds; is drawn by three horses, attended by one four-wheeled hose carriage drawn by two horses capable of carrying 1,000 feet of hose; has been in service three years and six months.

Members.	Age.	Nativity.	Former Occupation.	Position.
Michael Hanley Thos, J. McElroy John Horton Jas. F. Agnew Albert Snyder Matthew Coyle Richard D. Nolan James Brady Jno. T. McBride *Jas. Quigley	40 28 42 25 26 37 32 25 35 30	United States. United States. Ireland. Canada. Germany Ireland. United States. United States. United States. United States.	Locomotive fireman. Laborer Edge sawyer Tinsmith. Lumberman. Sawyer Locomotive fireman. Teamster Teamster Teamster.	Pipeman. Pipeman. Pipeman. Engineer. Assistant engineer. Driver steamer.

^{*}Disabled; on pension roll.

ENGINE COMPANY No. 3.

No. 43 Third Street South.

This is a first-class Ahrens piston engine, built by the Ahrens Manufacturing Company, Cincinnati, Ohio, and has been in service three years and four months; weight as drawn to fires, 9,000 pounds; is drawn by three horses.

Members.	Age.	Nativity.	Former Occupation.	Position.
Herbert E. Penney Stephen P. Wright Jos. E. Krake	30 31 33	United States.	Machinist Engineer Laborer	Assistant engineer.

ENGINE COMPANY No. 4.

Twelfth Avenue North Between Washington Avenue and Third Street,

This is a second-class Amoskeag piston engine, built by the Manchester Locomotive Works, Manchester, N. H.; has been in service six years and three months; weight as drawn to fires, 7,700 pounds; is drawn by four horses; attended by No. 4 hose carriage, four wheels, drawn by two horses, capable of carrying 1,000 feet of hose.

Members.	Age.	Nativity.	Former Occupation.	Position.
William J. Hart Theo. Kenning George Kersten Frank Board. Frank H. Babeock. Wm. E. Richmond Oliver H. Foster. Thos. W. Eastman Joseph Steffes	31 37 34 27 25 35 29 29 46	Germany United States. United States. United States. United States. United States.	Teamster Locomotive engineer Locomotive engineer Steamfitter Teamster	Captain. Lieutenant. Pipeman. Pipeman. Pipeman. Engineer. Assistant engineer. Driver steamer. Driver hose.

ENGINE COMPANY No. 5.

Corner Fifteenth Avenue South and Fourth Street.

This is a second-class Clapp & Jones piston engine, built by the Clapp & Jones Manufacturing Company, Hudson, N. Y.; has been in service two years and two months; weight as drawn to fires 7.770 pounds; drawn by three horses, attended by No. 5 hose carriage, four wheels, drawn by two horses; capable of carrying 1,000 feet of hose; has been in service six years.

Members.	Age.	Nativity.	Former Occupation.	Position.
Robert W. York Jno. C. Sullivan Oliver A. Burnes James McDonald P. W. McElroy Dan E. Gonsolus Henry H. Winslow James Hoy	49 33 34 36 39 37 35 28 46	Canada Ireland Scotland Ireland United States. Canada United States. United States. United States.	Brassfinisher	Lieutenant. Pipeman. Pipeman. Pipeman. Engineer. Assistant engineer. Driver steamer.

ENGINE COMPAMY No. 6.

Corner of Twelfth Street and Third Avenue South.

This is a first-class piston engine, built by the Ahrens Manufacturing Company, Cincinnati, Ohio; has been in service four years and seven months; weight as drawn to fires, 8,300 pounds; is drawn by four horses, attended by one four-wheel hose carriage, drawn by two horses, capable of carrying 1,000 feet of hose.

Members.	Age.	Nativity.	Former Occupation.	Position.
Jas, R. Canterbury Fred. W. Schambeck Kimball W. Davies. Jno. A. Gies Wm. O'Brien. William Allen William H. West Jno. W. Allan. Egbert S. Wilson. C. C. Horton.	28 28 28 30	United States. England	Butcher	Lieutenant. Pipeman. Pipeman. Pipeman. Pipeman. Engineer. Assistant Engineer. Driver steamer.

ENGINE COMPANY No. 7.

Near Corner of Twenty-first Avenue South and Franklin,

This is a second-class piston engine, built by the Amoskeag Manufacturing Company, Manchester, N. H.; has been in service fifteen years and four months; weight as drawn to fires, 7,837 pounds; is drawn by four horses; attended by No. 7 hose carriage, four wheel, drawn by two horses; capable of carrying one thousand feet of hose.

Members.	Age.	Nativity.	Former Occupation.	Position.
Jos. C. Hernlund Geo. H. Smith Jas. P. Murphy. Thos. C. Horton James Slater Michael O'Sullivan. Phineas W. Mixer Benjamin Wood Cicero M. Robb	30 45 40 39 27 45 28 43 43	Sweden	Clerk Shoemaker Laborer Cooper Teamster Lumberman Locomotive Engineer Teamster Glove cutter	Captain. Lieutenant. Pipeman. Pipeman. Pipeman. Engineer. Assistant Engineer. Driver steamer. Driver Hose.

ENGINE COMPANY No. 8.

Corner of Twenty-eighth Street and Blaisdell Avenue,

This is a second-class Amoskeag piston engine, built by the Manchester Locomotive Works, Manchester, N. H.; has been in service seven years and two months; weight as drawn to fires, 7,500 pounds; is drawn by four horses; attended by one four-wheel hose carriage drawn by two horses, capable of carrying 1,000 feet of hose.

Members.	Age.	Nativity.	Former Occupation.	Position.
Ernest Cadwell Wallace Jewell C. L. Mitchell Merritt M. Daily William A. Burho Stephen McBride Jno. E. Taylor David T. Bean William Blair	29 32 38 29 33 40 36 27 35	United States. United States. United States. United States. Nova Scotia United States. United States. United States. United States.	Mattress maker. Laborer. Carpenter Laborer. Blacksmith Teamster Locomotive fireman. Laborer. Teamster	Captain. Lieutenant. Pipeman. Pipeman. Pipeman. Engineer. Assistant engineer. Driver steamer. Driver hose.

ENGINE COMPANY No. 9.

Corner Seventh Avenue Southeast and Eighth Street.

This is a first-class piston engine, built by the Clapp & Jones Manufacturing Company, Hudson, N. Y.; has been in service one year; weight as drawn to fires, 8,000 pounds; drawn by four horses; attended by one four-wheel hose carriage, capable of carrying 1,000 feet of hose; has been in service four years and five months.

Members.	Age.	Nativity.	Former Occupation.	Position.
Edward Cayton Geo. Marden Wm. A. Gonyea J. W. Manning Chas. C. Lane Chas. N. Watts. Ira W Haven Chas. W. Pierce Arthur M. Niles	31 27 28 29 34	United States. United States. France United States.	Millman Laborer. Harnessmaker Laborer. Engineer Locomotive engineer.	Lieutenant. Pipeman. Pipeman. Pipeman. Engineer. Assistant engineer. Driver steamer.

ENGINE COMPANY No. 10.

Holden Street. Oak Lake Addition.

This is a first-class La France piston engine, built by the La France Fire Engine Company, Elmira, N. Y.; has been in service two years; weight as drawn to fires 9.350 pounds; is drawn by four horses; attended by No. 10 Hose Carriage, four-wheel, capable of carrying 1,000 feet of hose; has been in service three years and one month.

Members.	Age.	Nativity.	Former Occupation.	Position.
Willard Pollock A. F. Krake Sam M. Lockhart Geo. H. Smith Thos. J. Coleman Chas. E. Price. E. B. Mayo Keron J. Broderick Robert Davis	32 27 25 33 30 37	N. Brunswick. United States.	Laborer Clerk Teamster	Assistant engineer. Driver steamer.

ENGINE COMPANY No. 11.

24 to 32 Second Street Southeast.

This is a first-class Ahrens piston engine, built by the Ahrens Manufacturing Company. Cincinnati, Ohio; has been in service three years and three months; weight as drawn to fires, 9.000 pounds; is drawn by four horses; attended by one four-wheel hose carriage, drawn by two horses; capable of carrying 1,000 feet of hose; has been in service three years and four months.

Members.	Age.	Nativity.	Former Occupation.	Position.
Mathias Gates Sandy, Hamilton Louis Livingston Wm. H. McDonald. Frank Vezina Edward I. Kingsley. Thos. E. McGolrick. Chas. O. Pierce Hillman Gould	32 25 28 24 25 33 29 54 38	Germany Scotland France United States. France United States United States United States United States United States.	Carpenter Laborer. Millman Millman Carpenter Locomotive fireman Machinist. Teamster Teamster	Captain. Lieutenant. Pipeman. Pipeman. Pipeman. Engineer. Assistant engineer. Driver steamer. Driver hose.

ENGINE COMPANY No. 12.

Corner of Summer and Jackson Streets Northeast.

This is a second-class piston engine, built by the Clapp & Jones Manufacturing Company, Hudson, N. Y.; has been in service one year; weight as drawn to fires, 6,880 pounds, drawn by three horses, attended by one four-wheel hose carriage, drawn by two horses, capable of carrying 1,000 feet of hose; has been in service eleven years and five months.

Members.	Age.	Nativity.	Former Occupation.	Position.
Nicholas Mangen Patrick T. Quinn Solomon H. Cyrier Jno. Benolkin Wm. Benolkin Jno. A. Gonstead. Fred B. Morse Chas. Saunders Joseph Bray	34 39 35 32 23 27 29 36 37	Germany Ireland France Germany Germany Norway United States. United States.	Laborer Machinist Boilermaker Clerk Locomotive engineer. Lumberman	Driver steamer.

ENGINE COMPANY No. 14.

Corner of Twenty-first Avenue North and Fourth Street.

This is a second-class piston engine, built by the La France Fire Engine Company, Elmira, N. Y.; has been in service two years; weight as drawn to fires, 8,000 pounds; is drawn by three horses, attended by No. 14 hose carriage, four-wheel, two horses, capable of carrying 1,000 feet of hose; has been in service two years.

Members.	Age.	Nativity.	Former Occupation.	Position.
Nicholas Steffes	39 33 35 33 28 26 34 35 46	Germany French Cand'n United States. Germany United States. Norway		Lieutenant. Pipeman. Pipeman. Pipeman. Engineer. Assistant engineer. Driver steamer.

HOSE COMPANY No. 2.

Corner of Main Street and Thirteenth Avenue Northeast.

This is a four-wheel carriage built by the Fire Extinguisher Manufacturing Co.; has been in service twelve years; was formerly No.3, and was rebuilt at Fire Department Repair Shop, September, 1889, weight as drawn to fires, 5,000 lbs.; is drawn by two horses, and is capable of carrying 1,000 feet of of hose.

Members.	Age.	Nativity.	Former Occupation.	Position.
Nicholas Thielen Theo, S. Klares Jno, W. Scheffel Nicholas Smith Wm. G. Walsh Peter Miller		Germany Germany Germany United States.	Painter. Laborer. Laborer. Shingle Sawyer Lumberman. Laborer.	Pipeman. Pipeman. Pipeman.

HOSE COMPANY No. 3.

Corner of Second Street and Third Avenue North.

This is a four-wheel carriage, built by the Fire Extinguisher Manufacturing Co., Chicago, Ill.; has been in service three years and five months; carries 1,000 feet of hose; drawn by two horses, weight, as drawn to fires, 5,000 lbs.

Members.	Age.	Nativity.	Former Occupation.	Position.
Christ Henry Leonard Scharf Samuel C. Nelder Thos. Meagher Chas. Craigie John Thies.	29 25 26 28	Germany England Ireland Scotland	CooperTeamsterBlacksmith	Lieutenant. Pipeman. Pipeman. Pipeman.

HOSE COMPANY No. 13.

Seventeenth Avenue South Between Twenty-fifth and Twenty-sixth Streets.

This is a four wheeled carriage; has been in service thirteen years; drawn by two horses; capable of carrying 1,000 feet of hose; weight as drawn to fires. 5,000 pounds.

Members.	Age.	Nativity.	Former Occupation.	Position.
William Malone Chas. W. Ringer Daniel Noonan Fred Malone. Patrick J. Farrell William Kenney	36 25 36 31 27 45	United States. Ireland United States.	Teamster. Cooper. Carpenter. Printer	Lieutenant. Pipeman. Pipeman.

HOSE COMPANY No. 15.

Harrison Street and Twenty-fourth Avenue North East.

This is a four-wheeled carriage, built by the Moline Pump Company, Moline, Ill.; been in service since March 15, 1889; capable of carrying 1,000 feet of hose; drawn by two horses, weight as drawn to fires, 5,000 pounds.

Members.	Age.	Nativity.	Former Occupation.	Position.
idney B. Wilson oring D. Smith ohn H. W. Glazier ohn Gravrock libert E. Murphy ester A. Carpenter.	35 37 43 29 27 24	United States. United States. Norway United States.	Upholsterer. Planer. Painter Flour packer Blacksmith Teamster.	Pipeman. Pipeman. Pipeman.

HOOK AND LADDER COMPANY No. 1 AND SUPPLY No. 1.

Corner Second Street and Third Avenue North.

This is an extra first-class turntable truck of the Hayes' patent with an 85-foot extension ladder, built by the La France Fire Engine Company, Elmira, N. Y.: has been in service since August 25, 1885; weight including 265 feet of ladders, 9,659 pounds, and is drawn by four horses. Supply Wagon No. I is run in connection with this truck; has been in service five years and seven months; built by P. H. Freese & Bro., Chicago, Ill.; weight, 4,200 pounds: is drawn by two horses, and carries two Babcock extinguishers, guard and life lines, fifty feet $3\frac{1}{4}$ -inch hose, and Siamese connection nozzle, etc., twenty-four covers, axes, handpump, large hook-chain and rope.

Members.	Age.	Nativity.	Former Occupation.	Position.
Charles Forster George Kehoe Henry W. Steffens Edward Felsing Edward Thielen Jno. F. Hoy Nicolay Jurgens Samuel Hutchinson. Robert Ehrenburg John Hill. Geo. Seeliger	40 29 33 27 27 27 27 35 26 33 36 31		Laborer. Painter Housemover Sailor Lumberman Carpenter. Teamster	Lieutenant. Ladderman. Ladderman. Ladderman. Ladderman. Ladderman. Tillerman.

HOOK AND LADDER COMPANY No. 2.

Nos. 24 to 32 Second Street Southeast.

This is a second class steel truck, with modern improvements, including patent lever steering apparatus, built by the Fire Extinguisher Manufacturing Company, Chicago, Ill.; been in service two years; weight, including 277 feet of ladders, 7,599 pounds; is drawn by two horses.

Members.	Age.	Nativity.	Former Occupation.	Position.
William Traeger. James Lowry *Obder Campbell. David Lagesse Henry Rappa Fred. Wilson. Calixte H. Dumas. Dennis Gorey. Chas. F. Howe A. A. Hoyte Fred. Bohmbach.	37 32 32 29 24 26 29 23	Germany United States. United States. France Germany. United States. Fr. Canadian. Ireland. United States. United States. United States. United States.	Tinner. Packer. Laborer. Snoemaker Butcher. Lath sawyer Clerk Millman Woodworker Teamster Teamster	Ladderman. Ladderman. Ladderman. Ladderman. Ladderman. Tillerman. Ladderman. Driver H. & L.

^{*}Detailed as driver to Chief Engineer.

HOOK AND LADDER COMPANY No. 3.

Corner of Fifteenth Avenue South and Fourth Street.

This is a new "Aerial" Turntable truck with modern improvements, built by the Fire Extinguisher Manufacturing Company, Chicago, Ill.; been in service two years; weight, including 284 feet of ladders, 9,000 pounds; is drawn by four horses.

Members.	Age.	Nativity.	Former Occupation.	Position.
William O'Niell James Pearson John Horan Michael Copely Thomas Kehoe John Barrett Niels C. Lund Adolph Porsch Chas. D. Wendt	32 34 31 46 31 26 31 30 37	Canada United States. Canada Ireland Ireland Norway Germany	Harnessmaker. Tinner. Cooper Bridge builder. Laborer. Carpenter. Moulder	Ladderman. Ladderman. Ladderman. Ladderman. Tillerman.

^{*}Detailed as driver to Second Assistant Engineer.

HOOK AND LADDER COMPANY No. 4.

Twelfth Avenue North Between Washington Avenue and Third Street.

This is a first-class steel truck, built by the Fire Extinguisher Manufacturing Company, Chicago, Ill.; has been in service since March, 1889; weight, 7,500 pounds; carries 242 feet of ladders, drawn by two horses.

Members.	Age.	Nativity.	Former Occupation.	Position.
Chas. H. Lent Fred W. Vogel Michael Henry. Fred Schuppel Adolph G. Schlener. Otto Lohff Edward Llewellin William G. Volkert. Albert J. Hart	38 34 36 30 32 25 25 30 36	Germany United States.	Cooper. Harness-maker. Laborer. Harness-maker. Cooper. Lumberman. Cabinet-maker.	Lieutenant. Ladderman. Ladderman. Ladderman. Ladderman. Ladderman.

^{*}Detailed as driver to First Assistant Engineer.

HOOK AND LADDER COMPANY No. 5.

Corner of Twenty-eighth Street and Blaisdell Avenue.

This is a second-class truck with modern improvements, including the segment steering apparatus; was built by the Fire Extinguisher Manufacturing Company, Chicago, Ill.; has been in service nine years and three months; weight, including 204 feet of ladders, 4,737 pounds; is drawn by two horses.

Members.	Age.	Nativity.	Former Occupation.	Position.
Jas. J. Murphy. Jno. Q. Gilman. William Kelley Lawrence Lyng. Edmund Burke. Alex. Shepard. Ira A. Simons. H. C. H. Tuttle. Geo. T. Bigowet. William Winslow.	38 44 39 27 26 22	United States. Ireland	Wagon-maker Blacksmith Cooper Cooper Cooper Teamster Teamster Teamster Plumber Laborer	Ladderman. Ladderman. Ladderman. Ladderman. Tillerman. Ladderman.

CHEMICAL ENGINE COMPANY No. 1.

No. 43 Third Street South.

This apparatus was built by the Fire Extinguisher Manufacturing Company, Chicago, Ill.; has been in service six years and one month; weight when ready for use, 5,500 pounds; is drawn by two horses. This engine is substantially made, with two tanks or generators jacketed with brass, which are tested to 300 pounds hydrostatic pressure to the square inch. Carbonic acid gas is both the working and the extinguishing agent.

Members.	Age.	Nativity.	Former Occupation.	Position.
Louis Rober Ed. H. Prescott Jerry Murphy Hollis W. Cole John Cannon *Frank Peterson	34 36 30 28 47 26	United States. Ireland United States.	Flour bolter. Millwright Clerk Laborer Cooper Laborer.	Pipeman. Pipeman. Driver.

^{*}Detailed as Gateman.

CHEMICAL ENGINE COMPANY No. 2.

Corner Twenty-eighth Street and Blaisdell Avenue,

This apparatus was built by the Fire Extinguisher Manufacturing Company, Chicago, Ill.; has been in service two years; weight when ready for use, 3,700 pounds; is drawn by two horses. This engine has two iron tanks or generators jacketed with brass, which are tested to three hundred pounds hydrostatic pressure to the square inch. Carbonic acid gas is both the working and extinguishing agent.

Members.	Age.	Nativity.	Former Occupation.	Position.
James J. Murphy John Q. Gilman Peter Neisen *Chas. Hunstock Thos. J. Croak	39	Germany	Wagonmaker Blacksmith Barber Teamster Teamster	Lieutenant. Pipeman. Pipeman.

^{*}Disabled; on pension roll.

CHEMICAL ENGINE COMPANY No. 4.

Corner of Twenty-first Avenue North and Fourth Street.

This apparatus was built by the Fire Extinguisher Manufacturing Company, Chicago, Ill.; has been in service two years; weight when ready for use, 3,700 pounds; is drawn by two horses. This engine has two iron tanks or generators jacketed with brass, which are tested to three hundred pounds hydrostatic pressure to the square inch. Carbonic acid gas is both the working and extinguishing agent.

Members.	Age.	Nativity.	Former Occupation.	Position.
H. W. B. Smith. Louis H. Vogel Patrick O. Rielly George Gould	39 34 32 27	United States. Ireland	Carpenter Cooper Clerk Teamster	Lieutenant. Pipeman.

CHEMICAL ENGINE COMPANY No. 5.

Seventeenth Avenue South between Twenty-fifth and Twenty-sixth Streets.

This apparatus was built by the Fire Extinguisher Manufacturing Company, Chicago, Ill.; been in service two years; weight when ready for service 3,700 pounds; drawn by two horses. This engine has two iron tanks or generators jacketed with brass, which are tested to three hundred pounds hydrostatic pressure to the square inch. Carbonic acid gas is both the working and extinguishing agent.

Members.	Age.	Nativity.	Former Occupation.	Position.
Henry H. Thompson. Oliver B. Stafford Percy E. Smith James McCulloch	33 37 24 37	United States. United States.	Cooper	Lieutenant. Pipeman.

EXTRA WORK.

Besides attending to fire duties, the members of this department have worked extra, as follows:

Repairs to apparatus and repair shop work Repairs to engine houses. Fire alarm telegraph Haulling manure, miscellaneous, etc.	1,153 ° 213	
Total	4,258	6

Exhibit B.

STATEMENT OF EXPENDITURSS.

Salaries	\$182,885,23	
Property purchased	19,987.93	
Fire alarm telegraph.	11,291.66	
Forage	7.406.68	
Fuel and lights	4,754.01	
Repairs to buildings	4,205,28	
Repairs to apparatus and equipments	3,071.45	
Store room supplies	1,419,13	
Horse shoeing	1,405.00	
Laundry	736.99	
Telephone rent	675.65	
Scavenger	570.04	
Freight and express.	485.81	
Printing and stationery.	442.79	
Ice, seasons of 1888 and 1889.	394.00	
Soft soap	376,93	
Drugs	163.97	
Repairs to harness	163.82	
Material for new harness	88 91	
Acid and soda for extinguishers	153.25	
=		
_ Total	\$240,678.53	
Total Expenses from January 1, to March 1	37,836.45	
-		
Total expense ten months		\$202,841.08
CR.		
Nine horses sold, money turned over to general fund	\$500,00	
Collars, harness and weights.	46.80	
Fifty-eight acid carboys		

Total		\$599.00
Actual expenditures		\$202,242.08
Paid out of permanent improvement fund for lot corner James		
and Fifth avenue north	\$1,400.00	
Plumbing and steam heat plant for Station P	973.46	
Total	\$2,373,46	

Remized Statements of Expenditures for Each Station, Year of 1889.

FOR WHAT EXPENDED.	Station A.	Station A. Station B. Station	Station C.	Station D.	C. Station D. Station E. Station	E	Station G. Station H	Station H.
Forage. Lights. Lights. Softwardy Softwardy Fuel. Horseshoeing Softward Acavenger. Softward soda Repairs to apparatus. Property purchased.	\$566.81 245.86 245.86 245.86 27.68 208.27 27.40 14.00 14.00 14.00 15.88 253.30 154.88	83.7.76 63.84 41.01 130.11 79.75 28.00 8.70 8.70 28.71 131.21	28.7.24 28.8.8.8.8.8.8.8.8.8.8.8.8.8.8.9.9.9.9.9	\$157.59 47.35 47.35 23.85 20.25 19.10 19.12 19.12	889 12.851 12.85 12.85 12.85 12.85 14.85 16.85 1	26 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	28.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	8336.66 87.56.66 87.56.60 106.00 12.77 12.70 12.70 13.85.91
Total	\$1,798.84	\$1,017.23	\$2,298.20	\$402.98	\$1,062.58	\$1,577.21	\$1,744.69	\$1,519.70

FOR WHAT EXPENDED.	Station I.	Station I. Station J. Station K.	Station K.	Station L.	Station M.	Station L. Station M. Station N. Station O. Station P	Station O.	Station P.
Forage. Lights Laundry Soft soap Fuel Horseshoeing Fuel Scavenger Acid and soda Gasoline Repairs to building Property purchased	88.23 88.23 88.23 88.23 88.23 88.23 88.23 88.23 88.23 7.31	25.25.25.25.25.25.25.25.25.25.25.25.25.2	8578.39 101.88 101.88 18.20 18.20 28.60 18.50 18.30 18.33 17.45	8.88.88.88.88.88.88.88.88.88.88.88.88.8	2002 2003 2003 2003 2003 2003 2003 2003	200 200 200 200 200 200 200 200 200 200	28 28 28 28 28 28 28 28 28 28 28 28 28 2	25.57 29.28 29.28 12.16 15.20 15.20 1.65 38.88
Total	\$1,594.52	\$1,530.79	\$1,629.77	\$1,534.13	\$995.72	\$1,030.29	\$1,092.85	\$751.39

STOREROOM ACCOUNT.	
Matches and soap	\$95.16
Waste Lantern globes and lamp chimneys, wicks and burners. Cylinder and harness oil.	84.33
Calindon and harness oil	52.28 92.15
Chamois and sponges	171.75
Bed linen	113.74
Feather dusters	18.00
Sash cord	47.79
Horse blankets	
Brooms and mops	82.25
Respirators	12.00
Lantarns	60.00
Lanterns. Curry combs and horse brushes.	175.65
Tripoli and metal polish	88.32
Chairs	5.00
Bed springs and mattresses.	33.00
Acid bottles and corks	24.00
Axle Grease	
Horse pails and 4-quart measures.	7.50
Insect powder	4.50
Hay forks. Shovels. Bits, buckles and snaps.	5.25
Shovels	5.10
Play pipes and tipe	21.35 46.34
Whine	30.87
Pulleys bellcranks and gaskets	17.08
Play pipes and tips. Whips Pulleys belleranks and gaskets Expansion rings and rubber valves. Scales Emery cloth, fork and axe handles, webbing and twine. Files and bitts Tools	16.60
Scales	16.00
Emery cloth, fork and axe handles, webbing and twine	6.88
Tiles and bitts	8.14
Tools	3.05
Total	\$1,419.13
REPAIR SHOP ACCOUNT.	
Fuel	\$ 223.84
Lights	10.92 19.95
Material for use	2.507.98
Oils Material for use Property Purchased.	3,798.71
_	
Total	\$6,561.40
	\$6,561.40
GENERAL DEPARTMENT EXPENSES.	
GENERAL DEPARTMENT EXPENSES. Salaries	\$182,885.23
GENERAL DEPARTMENT EXPENSES. Salaries	\$182,885.23 675.65 485.81
GENERAL DEPARTMENT EXPENSES. Salaries. Telephone rent. Freight and express. Printing and stationery	\$182,885.23 675.65 485.81 442.27
GENERAL DEPARTMENT EXPENSES. Salaries. Telephone rent. Freight and express. Printing and stationery	\$182,885.23 675.65 485.81 442.27 145.25
General Department Expenses. Salaries Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection.	\$182,885.23 675.65 485.81 442.27 145.25 36.00
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection.	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00
General Department Expenses. Salaries Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection. Boiler inspection. Lumber.	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection.	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased.	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection. Boiler inspection. Lumber. Repairs to apparatus Property purchased.	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing. Carriages for inspection. Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total.	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10
General Department Expenses. Salaries	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs.	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78
General Department Expenses. Salaries	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs. Horseshoeing Pasturing	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs. Horseshoeing Pasturing Repairs to apparatus	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78
General Department Expenses. Salaries	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 .80
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs. Horseshoeing Pasturing Repairs to apparatus	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78
General Department Expenses. Salaries	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 .80
General Department Expenses. Salaries	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 29.72 17.40
General Department Expenses. Salaries	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 577.25 18.60 .80 29.72 17.40
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs. Horseshoeing Pasturing Repairs to apparatus Repairs to apparatus Repairs to building. Property purchased. Total.	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 29.72 17.40 \$1,045.63
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs. Horseshoeing Pasturing Repairs to apparatus Repairs to building. Property purchased. Total. Fire Alarm Telegraph. Pipe. Poles. Wire	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 29.72 17.40 \$1,045.63
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs. Horseshoeing Pasturing Repairs to apparatus Repairs to building. Property purchased. Total. Fire Alarm Telegraph. Pipe. Poles. Wire	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 29.72 17.40 \$1,045.63 \$235.11 144.50 203.55 47.35
General Department Expenses. Salaries	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 .80 29.72 17.40 \$1,045.63 \$235.11 144.50 203.55 47.35 76.33 76.33
General Department Expenses. Salaries	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 29.72 17.40 \$1,045.63 \$235.11 144.50 203.55 47.35 76.33 160.98
General Department Expenses. Salaries	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 572.25 18.60 .80 29.72 17.40 \$1,045.63 \$235.11 144.50 203.55 47.35 76.33 160.98 715.43
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs. Horseshoeing Pasturing Repairs to apparatus Repairs to apparatus Repairs to building. Property purchased. Total. Fire Alarm Telegraph. Pipe. Poles. Wire Hardware Insulators and brackets. Pitch. Pay roll. Casting	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 29.72 17.40 \$1,045.63 \$235.11 144.50 203.55 47.35 76.33 160.98
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs. Horseshoeing Pasturing Repairs to apparatus Repairs to apparatus Repairs to building. Property purchased. Total. Fire Alarm Telegraph. Pipe. Poles. Wire Hardware Insulators and brackets. Pitch. Pay roll. Casting	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 577.25 18.60 .80 29.72 17.40 \$1,045.63 \$235.11 144.50 203.55 47.35 76.33 160.98 715.43 61.92 7,777.95 21.25
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs. Horseshoeing Pasturing Repairs to apparatus Repairs to apparatus Repairs to building. Property purchased. Total. Fire Alarm Telegraph. Pipe. Poles. Wire Hardware Insulators and brackets. Pitch. Pay roll. Casting	\$182,885.23 675.65 485.81 442.27 145.25 36.00 60.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 29.72 17.40 \$1,045.63 \$ 235.11 144.50 203.55 76.33 160.98 715.43 715.43 715.43 715.43 715.43 715.44
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs. Horseshoeing Pasturing Repairs to apparatus Repairs to apparatus Repairs to building. Property purchased. Total. Fire Alarm Telegraph. Pipe. Poles. Wire Hardware Insulators and brackets. Pitch. Pay roll. Casting	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 .80 29.72 17.40 \$1,045.63 \$ 235.11 144.50 203.55 47.35 76.33 160.98 715.43 61.92 7,777.95 21.25 4.59 81.493
General Department Expenses. Salaries	\$182,885.23 675.65 485.81 442.27 145.25 36.00 60.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 29.72 17.40 \$1,045.63 \$ 235.11 144.50 203.55 76.33 160.98 715.43 715.43 715.43 715.43 715.43 715.44
General Department Expenses. Salaries. Telephone rent. Freight and express. Printing and stationery Horseshoeing Carriages for inspection Boiler inspection. Lumber. Repairs to apparatus Property purchased. Total. Veterinary Department. Forage. Drugs. Horseshoeing Pasturing Repairs to apparatus Repairs to apparatus Repairs to building. Property purchased. Total. Fire Alarm Telegraph. Pipe. Poles. Wire Hardware Insulators and brackets. Pitch. Pay roll. Casting	\$182,885.23 675.65 485.81 442.27 145.25 36.00 66.00 140.26 124.21 10,953.10 \$195,953.78 \$728.03 193.83 57.25 18.60 .80 29.72 17.40 \$1,045.63 \$ 235.11 144.50 203.55 47.35 76.33 160.98 715.43 61.92 7,777.95 21.25 4.59 81.493

		NG ACCOUNT.	\$5.13
	RECAPIT	ULATION.	
Station A	\$1,798.84	Station M	\$995.72
" B	1.017.23	" N	
" <u>C</u>	2,298.20	" O	1,092.85
" D	402.98	" P	751.39
" E	1.062.58	Storeroom account	
" F	1.577.21	Repair shop	
" G	1.744.69	General department expense	195,953.78
" H	1,519.70	Veterinary department	
" I	1,594,52	Fire alarm telegraph	14.112.56
" J	1,530.79	Horseshoing account.	5.13
" K	1,629.77	Horseshoring account.	9.19
1 T	1,029.11	m-4-1	0040 000 00

Exhibit C.

Monthly Statement of Alarms Attended by Each Apparatus.

COMPANY.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Steamer No. 1 3 4 5 6 7 8 9 10 11 12 14 14 4 5 6 7 8 9 11 12 14 15 14 15 14	8 7 8 6 6 6 6 6 3 4 7 6 6 10 3 9 7 11 8 7 3 4 4 7 4 5 4 3	13 21 16 9 11 6 5 1 10 5 1 14 4 21 11 15 12 16 7 5 9 15 9 16 9 17 18 18 18 18 18 18 18 18 18 18 18 18 18	5 9 8 7 3 5 3 6 7 9 4 4 5 5 5 2 8 8 7 6 6 3 6 11 10 6 4 4 4	12 13 9 7 9 6 6 3 7 6 4 4 14 7 15 9 10 12 10 9 9 9 7	9 8 9 11 3 5 5 5 5 5 5 2 4 4 10 9 12 6 6 8 3 5 1 1 6 6 8 8 7 1 1 1 6 8 8 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 6 6 6 7 1 3 4 4 6 6 6 10 4 2 2 5 7 8 7 9 5 4 4 8 8 7 10 6 6 7 2 2 2	11 14 9 11 9 8 2 2 5 13 7 6 4 14 4 15 10 13 13 9 3 6 13 7 6 7 4 3	9 13 3 11 4 8 1 2 5 3 2 14 4 4 14 6 8 8 2 2 5 4 3 3 9 6 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 14 11 6 6 5 5 4 4 3 1 10 16 12 8 9 5 5 5 10 8 8 10 8 10 8 10 8 10 8 10 8 1	11 14 14 18 6 5 4 5 12 13 5 8 14 5 21 17 10 8 7 4 7 16 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16	9 13 5 8 9 4 6 2 8 2 1 2 1 2 5 6 6 2 8 2 1 5 6 6 6 2 1 6 6 2 1 5 6 6 6 1 7 6 6 6 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8	15 16 87 96 4 4 45 55 3 15 17 10 16 7 4 4 4 9 8 6 6 5 16 16 16 16 16 16 16 16 16 16 16 16 16	115 148 106 98 76 67 46 48 91 175 38 136 48 173 110 126 121 84 51 55 121 94 51 67
H. & L. No.1 2 3 4 5	8 7 8 6	19 12 10 8	12 10 7 5	15 13 13 4	8 7 12 6	1 12 8 7	13 9 8 5	9 6 13 1	14 10 9 1	14 14 9 12	12 4 10 3 2	15 13 9 4 4	22 140 117 116 62 6
Supply No. 1 Chem. No. 1 2 3 4 5	10 10 3 4 4	24 25 5 5 6 6	13 12 3 9 4 5	18 17 9 6 4 5	12 8 4 6 4 4	7 5 4 10 3 5	15 12 1 5 4 7	13 15 2 6 7	16 16 5 4 1 5	23 18 4 13 9 5	13 17 6 2 3 5	16 18 3 9 3 5	190 173 49 79 52 59
Fuel W. No. 1				1		1	1			1	1 1 1	1	6 1 1

Number of Blocks Run by Each Apparatus to Fires.

COMPANY.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Steamer No. 1 3 4 5 6 7 8 9 10 11 12 4 5 6 7 8 9 10 11 12 13 14 10 11 12 13 13 14 13 14 14 13	70 444 100 65 31 87 39 62 113 80 36 80 62 111 73 89 62 111 73 89 96 62 111 73 33 33 39	92 136 201 116 93 64 80 23 117 49 15 25 83 191 168 234 111 180 23 27 27 27 27 77 77	45 55 92 88 36 67 67 124 46 41 45 55 55 57 100 92 100 92 132 73 65 137 95 44 44	112 58 122 81 123 76 76 24 93 83 32 140 92 124 127 214 162 24 162 24 162 24 162 32	98 47 104 114 35 30 69 79 67 67 40 30 141 45 74 112 184 130 119 52 95 125 108 44 39 30	83 50 63 63 14 17 42 25 68 71 113 34 111 119 113 80 100 106 30 42 120 56 120 56 131 141 151 151 151 151 151 151 15	80 91 131 135 121 104 34 46 146 82 66 37 88 103 161 150 168 196 65 85 146 83 67 96 67	84 46 1366 44 42 20 55 24 30 63 164 179 92 20 55 33 33 20 55 44 106	91 131 69 57 45 69 75 58 31	1711 158 97 85 80 533 60 181 123 56 97 203 227 167 101 153 91 318 42 60 76	64 115 70 81 86 62 131 47 75 26 28 181 73 36 28 181 73 75 267 113 147 201 38 28 28 36 36 36 37 37 36 36 36 36 37 37 37 37 38 38 38 38 38 38 38 38 38 38	93 93 93 78 77 77 42 54 60 60 49 25 134 212 77 70 42 108 63 98 98 98 98	1,031 1,068 1,290 1,114 803 801 734 589 1,125 463 383 1,239 740 1,623 1,416 860 719 1,950 1,156 860 719 1,069 639 1,069 455
H. & L. No. 1 2 3 4	70 99 111 67	155 125 128 112	96 89 86 53	33 130 179 245 56	18 59 93 184 75	36 4 149 121 80	30 176 166 158 84	27 73 81 173 21	82 95 139 4	45 180 136 110 172	50 151 47 150 46	68 133 153 97 47 70	307 1,309 1,412 1,702 821
Supply No. 1 Chem. No. 1 2 3 4	81 94 26 63 42	275 178 80 51 67	119 104 64 128 39	175 127 138 109 35	122 95 86 107 37	113 73 42 126 27	213 175 14 158 50	141 117 33 45	104 119 70 33 14	209 244 53 130 107	42 155 162 121 27 36	149 155 46 91 25	112 1,956 1,643 773 1,068 479
Fuel W. No. 1	111	69	44	66	54	62 16	96 50	107	59	86 16	73 11 25 15	81 37	908 145 25 15

 Total.
 15,938 blocks, or 1,226 miles.

 Distance both ways.
 2,452 "

Hose Stretched.

COMPANY.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Hose No. 1 2 3 4 5 5 6 7 8 9 10 11 12 13 14 15 15	2,050 400 1,300 1,450 1,100 2,200 950 250 800 500 1,250 1,350	3,550 650 5,000 5,250 2,300 3,850 750 1,000 3,150 1,800 850 650 1,800	1,050 900 1,350 400 700 1,700 650 900 1,750 1,850 1,700 2,050 300 800	3,200 1,600 2,100 1,650 2,750 3,050 2,950 3,850 400 1,950 4,550 1,650 1,600	2,150 550 700 1,400 2,600 1,000 1,750 1,150 750 300 1,650 850	1,650 1,950 1,950 1,500 1,500 1,150 1,550 850 4,350 2,050 3,400 1,850 1,450 500	4,250 1,750 1,050 3,400 2,700 1,350 650 2,650 750 1,250 1,250 1,750 1,650	4,000 900 2,650 2,550 3,250 1,150 2,550 450 1,100 350 1,600 1,800 950	4,000 250 4,650 3,550 2,000 800 1,250 850 400 3,350 2,300 800 1,050	5,700 2,450 2,650 2,500 3,400 2,350 2,650 2,400 4,150 3,050 2,200 1,450 1,400 700	2,200 650 1,400 1,550 1,100 2,800 2,250 800 2,950 900 800 2,850 800 1,050	1,000 1,650 2,100 2,600 3,750 1,300 1,050 2,500 650 2,700 2,100 1,250	26,700 19,950 16,450 18,050

RECAPITULATION.

January	14,500	August	21,950
February	30,600	September	
March		October	40,000
April	30,150	November	25,200
May	16,000	December	26,850
June	26,700		
Tuly	90.500	Total	200 800

Chemicals, Ladders and Rubber Covers.

			AROMIO		LS		Сн	SM EM			s.		als.		FEET	OF L	ADDE	RS .	R_A	is	ED.		No. 1.
Month.	Chemical No. 1.	Chemical No. 2.	Chemical No. 3.	Chemical No. 4.	Chemical No. 5.	H. & L. No. 1.	H. & L. No. 2.	H. & L. No. 3.	H. & L. No. 4.	H. & L. No. 5.	Hose No. 2.	Hose No. 10.	Gallons of Chemicals.	H. & L. No. 1.	H. & L. No. 2.	H. & L. No. 3.	H. & L. No. 4.	H. & L. No. 5.	Chemical No. 2.	Chemical No. 4.	Chemical No. 5.	Total.	Covers—Supply Wagon N
January February March April May June July August September October November	3 2 9 9 11 9 7 9	1 1 2 2 4 4	3 2 1 1 1 4 3		22152222231	1 24 9 10 10 4 8 3 8 13 8	-32 2 2 5 1 11 8 5 2 6 	7 8 11 5 4 11 3 6	1 1 2 1 4 2			i i i i i i i i i i i i i i i i i i i	657 2,052 717 1,077 1,156 1,165 1,090 1,071 1,216 1,521 912 1,214	49 528 328 63 175 255 102 592 276 215 479	297 145 128 30 341 196 79 203 99 130 531	102 62 92 306 120 96 156 85 98 296 389 74	121 129 87 14 14 236 86 14 84 75 231	81	26 26 		48 14 66 14	569 864 661 422 227 848 707 332 921 755 926 1,392	28 15 5 5
Totals	89	22	16	20	29	108	47	55	13	3	4	2	13,848	3,090	2,179	1,876	1,091	158	88		142	9,624	53

Hours Worked.

							1						-
COMPANY.	January.	February.	March	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Steamer No.1	6:15	12:45	4:45	10:45	6:45	7:00	9:15		9:40	12:15	25:25	15:45	96:55
3	4:00	19:30	5:15	6:40	4:00	9:05	9:05		11:20	14:20	20:30		
4	5:00	12:55	2:45	6:00	4:15	6:00	10:00		13:15	8:30	18:00	4:30	93:10
5	4:25	6:40 9:45	4:40	5:25	6:35	4:10	8:55	6:45 2:15	4:55 3:45	5:20 10:30	11:40 12:50	5:20 7:05	74:50 74:00
6 7	2:50 5:15	2:50	$3:00 \\ 3:15$	8:40 6:45	2:25 2:55	2:30	10:25 6:45		4:10	8:30	10:10	5:05	64:05
8	1:55	3:15	4:15	4:35	3:00	1:45	2:00	30	3:20	6:45	10:20	3:20	45:00
9	2:20	35	4:25	2:25	2:05	8:15	2:20	2:15	3:35	8:05	7:35	6:45	50:40
10	2:50	6:50	4:50	5:25	3:45	8:55	7:15	2:50	5:20	13:10	6:10	2:45	70:05
11	3:10	2:35	4:30	2:25	2:10	9:30	3:45	1:55	2:05	10:10	17:20	7:00	70:25
12		40	2:10	3:55	1:50	2:30	3:25	3:05	2:05	9:50	6:00	9:05	44:35
14	1:45	2:15	2:45	3:20	2:45	1:30	6:30	0.00	30	5:45	3:15	2:05	32:25
Hose No. 1	9:15 1:55	16:15 1:75	5:15 3:40	15:20	10:00 3:05	9:00 4:30	23:15 9:35	8:20 2:35	11:30 1:40	17:15 9:55	23:35 6:30		167:00 56:05
3	5:25	19:45	9:10	4:35 8:15	4:15	11:20	8:05	8:05	15:00	15:45	28:25	10.90	144:30
4	4:05	10:40	3:05	6:30	5:15	8:30	12:00	2:45	16:00	11:45	18:15	5:10	104:00
5	7:40	10:30	5:35	7:10	7:25	8:45	16:55	9:00	7:20	10:35	11:45	12:35	115:15
6	4:10	14:50	6:50	10:55	6:10	5:15	12:30	3:55	6:30	13:00	32:20	17:25	134:00
7	4:35	4:20	3:40	19:50	5:45	3:05	6:35	5:55	4:35	10:15	12:05	6:20	88:00
8	1:55	3:15	4:15	12:10	3:15	2:05	2:10	1:30	3:10	9:35	10:45	3:20	57:25
9	2:20	35	6:10	2:25	2:50	15:00	2:20 7:15	2:15	4:30	14:15	7:35	9:35	64:10 124:00
10 11	3:55 4:00	$11:15 \\ 6:10$	8:20 5:35	7:50 2:25	4:55 3:55	10:05 $14:40$	7:15	2:15 2:40	8:55 3:35	21:20 10:15	32:25 14:15	5:40 11:30	86:05
12.	5:20	1:20	4:50	3:55	3:20	5:45	4:00	2:35	2:85	13:35	16:00	11:10	75:25
13	3:45	4:20	3:15	17:15	2:20	6:05	7:00	4:30	6:50	9:10	8:10	5:40	78:20
14	2:15	2:15	2:45	4:05	4:00	1:30	7:30		30	5:30	8:15	2:05	40:40
15	!]		4:05	1:35	2:40	2:05	3:10		6:50	9:40	4:00	34:05
H. & L. No. 1	4:10	20:05	8:10	10:20	5:00	6:05	10:10	5:00	15:05	16:35	18:50		136:25
2	7:46	5:10	7:30	7:15	4:45	21:15	4:40	2:35	9:45	13:25	20:45		119:50
3	7:35 4:30	8:00 7:30	5:40	21:30	9:30	6:00	19:00	10:20	8:50 1:15	13:10 9:15	21:20 6:15	5:10	134:50 63:20
4	4:30	7:30	2:30	4:30	4:10	8:15	8:30	1:30	1:10	9:19	4:00	3:45	7:45
Jupply No. 1	5:30	26:05	10:50	14:00	7:55	11:20	16:40	9:10	17:30	20:15	19:45	17:35	
Supply No. 1 Chem. No. 1	7:05	24:00	5:15	9:35	7:05	6:30	14:45	11:10	14:45	17:20	13:35		147:55
2	40	3;30	4:15	10:30	5:15	2:50	1:15	2:00	3:15	6:20	10:30	3:45	54:05
3	7:30	1:40	4:55	3:10	6:00	8:50	7:05	2:40	5:00	10:10	2:30	12:00	71:20
4	3:10	3:45	3:00	5:05	4:05	1:25	2:15		35	4:15	3:30	2:40	33:15
5	6:45	4:15	4:25	8:25	3 25	3:55	7:00	5:15	5:15	6:40	3:00	5:05	63:25
Fuel W. No. 1				1:15		2:45				5:30	$20:00 \ 18:00$	2:00	31:30 18:00
											12:00		12:00
3											110.00		IN.00

Monthly Summary of Work Done.

	of	run.	rg.	lad-	نہ	('HEMI	CALS.	ld.
Month.	Number alarms.	Blocks ru	Hours	Feet of la	Hose laid	Large.	Small.	Gallons.	Covers
January February March April May June July August September October November	35 48 40 45 35 33 51 33 52 32 43	2,448 3,904 2,945 3,984 2,957 2,629 3,953 2,351 2,737 4,907 3,369 3,337	252:45 292:20 179:20 288:40 166:25 247:45 302:35 154:20 227:00 415:15 570:40 311:25	569 864 661 422 27 848 707 332 921 755 926 1,392	14,500 30,600 16,100 30,150 16,000 26,790 29,500 21,950 25,250 40,000 25,200 26,850	8 23 9 15 14 12 15 13 15 22 14 16	11 36 11 11 28 15 15 14 17 33 16 24	657 2,052 717 1,077 1,156 1,165 1,090 1,071 1,216 1,521 912	28 15 5
Total	484	39,567	3.408:30	8,624	302,800	176	230	13,841	- 5

Exhibit D.

Causes of Fires.

Amidantal	6	Long left in	
Accidental	4	Lens left in sun	1
Carelessness	60	Overheated bearing	13
Children with matches		drykiln	3
Chimney fires	26	" drykiln	1
Cigar or cigarette stubs	~()	" fireplace " furnace	13
Defective chimneys	18		- 13
" fire-place	10	rangesmokehouse	1
" flue	11	stove	10
" stove	1		4
" stovepipe	~	Salamander	9
Electric light wires	Å	Rats with matches	0
Explosion of asphaltum	1	Slaking of lime.	1
" gasoline	8	Smoke mistaken for fire	4
" kerosene lamp	90	Sparks from chimney	13
" stove	1	" furnace	10
" boiler	i	" locomotive	13
" 'lantern	•)	" smokestack	15
" gas in furnace	1	" stove	1
" headlight	i	" stovepipe	9
False alarms	18	" smokehouse	1
Fireworks	8	Stovepipe falling	1
Glandered barn fired by board of health	1	Steam mistaken for smoke	2
Gasoline stove	5	Supposed incendiary	5
Incendiary	36	Spontaneous combustion	25
Lamp upset	7	Unnknown	57
Lamp falling	1	Trying out lard	1
Lantern upset	2		
Lightning	5	Total	484

Buildings, how Occupied.

3 /	1
Dwellings	Trees 2
Barns 44	Refreshment stands 1
Boarding houses	Churches 1
Tenements	Enginerooms
Sheds	Fertilizer factory 1
Sheds	Cornice "
Groceries	Hat " 1
Store and tenement	Hat " 1 Fence " 1
Saloons	Rottling "
Hotels 9	Bottling " I City hall. 1
Foundries	Public hall 1
Postonent	Pillsbury hall
Restaurant 7	Howaite
Stores and dwellings	Hospital1
	Ice house
	Hot "
Stores 5	Sawdust house 1
" second-hand 5	School "
Lumber, cedar post and woodpiles 5	1 1 a y
Sash and door mills 4	Harvester works 1
Smoke houses 4	Saw mills 1
Warehouses 4	Paper "
Offices 4	Cedar block mills 1
Barber shops 4	Locomotive engine 1
Shoestores 4	Livery stable 1
Confectionery stores 4	Street car 1
Lumber and woodyards 4	Harness shop 1
Manure piles 4	Furniture " 1
Breweries 3	Machine " 1
Outhouses 3	Tin "
Laundries 3	Furniture store 1
Planing mills	Drug " 1
Clothing stores	Millinery "
Cooper shops	Hardware "
Dry kilns	Dry goods " 1
Bakeries. 2	Food "
Candy factory	Towelry "
Furniture "	Commission "
Candy factory 2 Furniture "2 Boiler "2	Photograph gallery 1
Grain elevators	Telegraph pole 1
Railroad depots	Carpet on line.
	Junk shop
Haystacks	
Switch houses	Wooden pier 1
Printing offices	Ash pit 1

1		No loss.	Slight.	Considerable.	Total loss.	Total.
Vooden nien	" " " " " " " " " " " " " " " " " " "	5 10 3 2 1	3 3 8 8 5 2 1 1 1 1 1 15 558 2 2 2 2 1 1 2 1 5 5 5 5 5 5 5 5 5 5 5 5	6 3 1 3 9 15 36 1 4 1	1	1 2 2 3 4 4 4 4 4 1 7 7 1 1 1 1 1 1 1 1 1 1 1 1

CITY OF MINNEAPOLIS.

Company Hitching.

	СОМІ	PANY.	ap	e to hitch paratus company.	men	e to hitch paratus, & horses n floor.	Time app men	e to hitch paratus, in bed.	Dist fron trat by h	tance stall veled orses.	Re	m'ks.
Engine ('o. N	0. 1	14	seconds	514	seconds.	19	seconds.	47	feet.		norses
		3	15		-		1434	66	31		3	66
.,		<u> </u>	1334		4	4.	13		38		4	
		j	18		912	4.	21		37	46	3	4.6
		6	14		5		1112		49	6.	4	
		1	13		412		.15		50		4	44
		8	15		734		15		40	*6	4	66
••		9	8	**	5		16		37		2	
		10	19	**	712	**	20	**	43	+ 6	4	
••		11	19	**	6	6.	28	4.	36	4+	4	66
		14	1934	••	4	+ 6	1412		431/2		3	6.6
Hose	••	1	9	**	212	6.	10	6.6	47	6.	2	66
**		.)	8	6.	314	**	11	4.6	41	**	2	6.6
	• •	3	5	**	21/2	+ 6	9	**	32	6.6	2	6.6
**	• •	4	6	**	3	**	13	6.0	63	**	2	6.6
		5	10		412	6.6	10	**	52	6.4	2	6.6
••		6	9	**	410	**	8	6.6	65	4.6	2	66
**		7	10		514	**	10	4.6	53	6.6	2	6.6
**		8	8		412	6.6		time	65	6.6	2	6.6
		0	1215	6.	3	66	8	seconds.	53.	66	6)	66
	+ 6	10	8		3	. 6	10	seconus.	34	4.6	2	46
	+ 6		10	6.	334	6.0	10	+4	35	6.6	2	6.6
	6.	4.3	9		6			41	30	6.	2	66
		41)						time	30	66	2	66
		13	11 13		412	**	20	seconds.	31	66	2	66
H. & L		14			6		10					6.6
H. & L		1	10	44	6		15		6134		4	66
		2	10		412		9	"	49		2	66
65		·	15		912	66	21		54		4	66
		4	6	6.	3	6.	1334	4.6	56	6.	2	66
Chemica		1	10	4.4	434	6.6	11	6.	66	6.6	2	
. 6		2		time	3	4.6	10	66	62	. 6	2	6.6
		3	15	seconds	5	6.6	18	. 4	27	6.	2	6.6
	+ 6	4	8	+6	7	4.6	8	66	27	6.6	2	4.4
	6.6	5	1314	66	414	64	11	66	31	6.6	2	6.6
Supply \	W7 6.	1	5	**	234	6.	9	4.4	3134	6.6	2	6.

JANUARY, 1889.

Total in- surance.	\$1,900.00 \$1,400.00 \$2,000.00 \$3,400.00 \$3,000.00 \$4,000.00	
Total loss. Total in-	\$310.82 2,680.00 45.00 500.00 10.00 150.00 25.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00 35.00	\$125.00
('ause.	Defective chimney. Spontaneous comb'n. Re-kindled. Stovepipe fell. Unknown Incendiary Lamp upset. Carrelessness. Salamander Lamp upset. Carrelessness. Salamander Lamp upset. Carrelessness. Soot from chimney Overheated stove. Carelessness. Incendiary Inc	Spontaneous comb'n Spark from chimney Chimney fire Lamp explosion Chimney fire Over-heated furn'ee Spontaneous comb'n
Use.	Marehouse Store Shop Shop Shoeling Shoeling Shoeling Store Brote B	Saloon Sehool Dwelling Saloon Dwelling Hot house
Oceupant.	Same S. E. Hart & Co Kirk & J N. A. Shaw Unoccupied R. Taylor. F. E. Brewster F. E. Brewster Same L. M. Ford L. M. Ford L. M. Ford M. Mrs. Carlson. Same Same Same Same Same Same	apolis S. A. Stevenson. Swenson Bros. Joe Schuster.
Owner.	M. M. Brown M. pi'ls Burfail C'se Co M. H. Bustis Mr. Goodnow M. A. Shaw Ceo. Higgins J. W. Kelly M. T. Ford M. Same M. Scott M. Campbe E. T. Fletcher M. Cambbe E. T. Fletcher M. Same M.	City of Minneapolis
Class of building.	rick.	
Location.	156 181s av NE 2 2 2 154 stand 14th av N 3 1 154 stand 14th av N 3 1 160 15t at S 4 2 2 175 stand 11th av SE 1 175 stand 11th av SE 2 175 stand 11th av SE 3 175 stand 11th av SE 4 175 stand 11th av SE 3 175 stand 11th av SE 3 175 stand 11th av SE 4 175 stand 11th av SE 175	245 1st av S. 3 brick 261 4th av S. 1200 Wash. av S. 3 brick 1202 Wash. av S. 3 brick 1202 Colfax av N. 1 trame 212 Colfax av N. 1 trame
Time of day.	11.086.28 a m m m m m m m m m m m m m m m m m m	33:25 pm 33:25 pm 112:40 am 61:55 am 61:55 am 11:55 am 10:16 am 10:16 am

FEBRUARY-Continued.

Total in- surance.	\$2.50 4.500.00 29.00 2.00 2.00			3,000.00 8,000.00 8,000.00	200.00	16,100.00	2,000.00	3,000.00	1,000.00	2,300.00
Total loss. Surance.	#50000 #50000 29,000	97.00	30.00	85.00 85.00 8.00	25.00 15.00 175.00 175.00	8,500.00	35.00	200.00	5.00	15,00
Cause,	Dwelling Steam mistkn for fire Store and dwl'g Rendering lard Chenom Store Chenomy Core-heated furn ce Dyer-heated furn ce Dyer-heated furn ce	Chinney five Chinney five Carelessness Boys with matches Chinney five	Incendiary	Carelessness	Unknown. False mercurial. Unknown. Lamp upset. Incendiary			Defective chimney	himney mney	Carelessness
Use.	Dwelling Store and dwf'g Store Barn Tenement	Restaurant. Dwelling Hospital Dwelling Playhouse.	Saloon Store Warehouse	Saloon Restaurant Saloon	Woodshed Foundry Dwelling	Photog'h gal'ry Shoe store Grocery	Shoe store Shops, etc Store and tene.	Dwelling	3 2 2 3	Tailor shop Incendiary
Occupant.	L. Gries. J. W. Field. E. Johnson. L. Hale.	– Taylor. J. Treat Boys	T. W. Esterly H. Shapiro. W. A. Alexander	T. W. Esterly Leach Bros. T. W. Esterly	Same Upton & Co. Same C. L. Lack	Anderson Same Chas. Scheffer	Knoblauch Bros Various.	F. D. Norenburg F. Dipple Burdick & Eanies. A. Ecklund	Chas. Rice J. C. Hairtag. F. H. Aldrich	Nelson & McLean Thos. Lawler
Owner.	Peter Rouen. A. Hunter. S. C. Gale & Co.	3 brick 2 frame. A. R. Camp. 1	- Baker	- Baker A. H. Knowles. - Baker	l diameter	J. C. Higgins			H. L. Hubbard H. T. Wells M. Byrnes	Car y
Class of building.	1 frame 2 t brick 1½ frame 3 frame	3 brick 2 frame. 1 1½	brick :	frame brick frame	stone frame	::::	3 brick			v S. 2 frame
Location.	424 3d av S. 920 N 5th st. 2209 Nicollet av 2206 N 3d st. 426 1st av N	220 Hennepin av Ella S4th st 829 S (6th st 1628 SE 6th sc 710 8th av N En 'sn bet 6k7 avs N 2121 10th av 5	209 Wash. av N. 209 Wash. av N. 209 Wash. av N. 209 Wash. av N. 209 Wash. av N	117 Nicollet av 29 Wash. av S. 117 Nicollet av	1 (29 19th av NE. 1 Main st and 2d av SE 3 1 2855 Fort place. 1 3200 S James av. 2 320 S James av. 2 34 S 6th St.	129 Wash. av S. 129 127½	125 ". ". 324-326 2d av S. 113 N 1st st. 605-600 Wst.	2426 27th av S 815 5th av N	206 E 16th st 1414 Clinton av 127 N 2d st 27 N 10th st 129 5th av S	243 1st av S. 1524 E Franklin av.
Time of day.		11128933 1083123393 108312339 108312339 108312339 10831233 1083133 10831 108313 10831 108313 10831 108313 10831 108313 10	n d	0 0 0 0	897350 897350 89730 80730 80730 80730 80730 80730 80730 80730 80730 80730 80730 80730 80730 80730 80730 8070	am	9:10 a m 12:35 p m	ind ind ind	10:50 10:50	p m
Day.	1-101010101	x = = = = = = = = = = = = = = = = = = =	2 2	5555	<u> </u>	30	88	8 22	31313737S	क्षर

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MARCH, 1889.

800.00	3.000.00 1,700.00	7.600.00	1,000.00	
360.90 360.90 37.00	250.00	56.85.88 50.98.88 .00.98	30.00	\$5.00
Flag shanty Overheated stove Bottling works, Incendiary Lantern explosion Foundry free Chinney fire. Chinney fire. Sparks from smkh'se Storage Sparks from chinn'y.		ンドーののアーク	Dwelling. Defective flue Store. Boys with natches Boarding house Defective chinney. Barber shop. Livery stable. Marsh fire.	False alarm Unknown Spark from locom't'v Marsh fire Sparks. Hot ashes.
Flag shanty Bottling works. Foundry Dwelling.	Lumber pile SornCo Cornice works. Dwelling Unoccupied Dwelling Dwelling Dwelling Drug store Grain elevator.	Barn Boarding house Outhouse Planing mill Furniture store	Dwelling. Store Boarding house Barber shop.	Barn.
Same. F. Williams.	E A L	Geo. Kay. Same Same. Same.	Same A. D. Gorick Same	H. M. Letcher R. K. Whitset
N. P. R. R. Co. Same. Anheuser B.Br'g Asn Lockw'd, Upton & Co J. H. Johnston. F. Williams	10 5 20 3 4	Joe Peruse Joo Maher J. G. Terguson J. H. Wilson. Wh'ton, Reyn'lds&Co C. Hemmelsbach.	Wn. Ragan. J. Manthey & Sons. — Ewing.	— Crowell. W. H. Phelps.
frame stone stone brick brick	Lumber pile	2 rrame 1 2 3 brick		False alarm. Hollow tree. Lumber yard. Marsh fire 112 frame
EI	no - no Talla Con to to	119 18 st S. 1635 E Franklin av. 1105 Western av. 5th st and 4th av NE. 115 N 18st st.		Ist St and 187 a. T. Hase alarm. Rear of West hotel Hollow tree. I'th av SE and 9th st Lumber yard 137 th av SE and como Marsh fire 135 W Lakest
2000 S S S S S S S S S S S S S S S S S S			100 4 50 50 50 50 50 50 50 50 50 50 50 50 50	28.00 pm 20.125 pm 20.00 pm

*One horse burnt.

APRIL, 1889.

Total in- surance.	\$5,000.00 \$10,000.00 75.00 2,000.00	350,00	8.000.00	1.874.00		10,000.00	1 : :		5.00 1.23,000.00
Total loss, Surance.	\$5,000.00	420.00	90.06	1,000.00 250.00 10.00	300.00	15.00	50.00 50.00 65.00	3.00	
Cause.	Chimney fire. Sparks Lamp explosion. Defective flue.	Incendiary Unknown. Carelessness Overheated freplace	Rubbish fire. Defective chimney. Lamp upset Hot bearing. Spontaneous comb.	Spark from furnace. Supposed incendiary Lantern upset. Boys with matches.	Burning rubbish Carelessness Spark from l'motive	Ashes. Lighming From furnace	Brush fire Defective chimney. Defective flue Spontaneous comb.	Spirk from ht-air pipe Spirk from ht-air pipe Lamp upset. Incendiary. Prairie fire.	Countryman trying to m'l Hot ashes. Sm'ke mistkn for fire Boys with cigarettes. Boys with matches.
Use.	Sawdust house. St. car barn Dwelling	Barn Dwelling.	Grocery Meat Market. Planing Mill. Dwelling Barbershop.	Hotel Barn, etc Barn. Owelling	Shed Meat Market	Shed Signboard Telegraph pole. Boiler room	Ice house. Dwelling. Office.	Mild. Store, etc.	Barn Stores, etc Barn Red-hot stand
Occupant.	Same. Railway Co. Various	Unoceupied J. C. Napp	Same J. C. Fay. W. M. Morgan.	H. L. Rockfield Same niture Co.	Same	S. W. Dickinson.	Unoccupied Same S. C. Tibbetts	Sash and door mill.	Min apons Journal Onice Stores, Stores, Barn Stores, Gal-ho
Owner.	Frazer & Shepard Minneapolis Street P. J. Clementson	Carlson & Haystad.			T. M. Tibbetts. St. P. M. & M. ry.	Ankeny.			Thos. Saeger. City of Minneanolis.
Class of building.	1 frame	rass fire	frame frame 1 2 stone	brick frame brick	frame	I frame Signboard Tel'gr'ph pole	frame	: : : : :	False alarm 1½ frame 3 frame frame frame frame frame frame
Location.	213 15th av N. 5th st and 5th av N. Cor Fr'klin & Chie.av 1804 f'fth av N. 6th cor Fr'klin & Chie.av	1908 2d sts. 1908 2d sts. 1908 2d st N. 1, 2d sts. 2425 1st av SE. 2425 1st av S. Penn and 20th av S.	Piercest & 25th av NE 77 S1st st. 73 S1 S1 S1 Lindale av S M& M ry 1 200 4ft st SE 78 Nicollet av and 26 st. 4	Nic. av and Wash 2204 N 2d st. 2524 I'th av S. 1017 14th av SE. West'n & L'keside av	123 W Lake st. Broadway&4th st NE 5th st & 27th av NE. 2111 Minnehaha av	2927 Portland 119 S 1st st. Henn. & Wash. avs. 21-23 4th st S.	Knox av & W 36th st. 1616 California st NE. 2901 Lindley av. 18-29 5 6th st.	1 1 1 1 3	tul st and 1st av s. Wash, and 2d avs S. 1900 Portland av. 251 Hennepin av. 2901 S 9th st. Rear 17 N 2d st. City Hall
Time of day.	5:08 p m 10:26 p m 1:45 a m 10:35 a m		11:47 pm 9:55 pm 9:55 pm 8:55 pm 11:04 pm		2222	BEEEE	EBBB	12222	3383338

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30.00 \$1		10.00	32.00		814,000,00 887,290,00	300.000
Mice with matches Cigar stub	Spark from stack Overheated bearing. Hot ashes Unknown Boys with matches Carelessness	Lamp explosion Spout comb Defective flue Sorviple thro floor Sparks fr'm chimney Reflection of bonfre. Defective chimney Lamp explosion	Manure pile Carelessness Manure pile Carelessness	Spark from chimney Unknown Spark from stack Lightning Lamp falling Gasoline stove Spark locomotive Spark locomotive	From boiler	Carlessness. Gasoline explosion Boys with matches. Unknown Carelessness. Sparks from loconot Carelessness. Sport, combustion.
Dwelling Woodpile Offices	Sawmill. Shed Boiler works. Barn. Shed	Dwelling Brewery Dwelling Bdg. house Paint shop. Dwelling Grocery.	Factory Smoke house. Pattern shop.	Store Hotel Shed House and barn Store Dwelling	Factory	Tenement Dwelling Barn Dwelling
Same Various	Same Hospital.	Company C. C. Pattee Horkeson Bros. Arlington hotel. Swanson.	G. F. Hunt Same	kungg, Fuller & Co. C. A. Merrill Same Miss E. G. Casey Same Owatoma hotel.	JUNE, 1889.	with pole. Same Same Johnson et. al.
Leon Lane	Day & Sons. St. Barnabas. Jos. Turnbull Wm. Frankie. Jno. G. Crich.	Germania Breen Germania Breen H. A. Wilsom agent O. Shephey Mrs. Flaherty Mrs. Wilsom Breek & Co	Chas. Ewald Crown Iron Words.	A. E. Ames T. H. Hastings. Of myear N. M. Vanstrum J. W. Chrisinger Jno. Laughlin	Juo. Hone	king man ritt. s ngs. et. a
g frame Wood-pile 5 brick Manure pile	9:::::	Brick Brick frame 2. Vencer frame	Manure pile. 3 brick	2 Drick 3 Trame 1 frame 11 frame 2	stone	d'th pulled s stone p frame l'2 frame
r 3	1012 S 5th st. 24th av N and river. 6th st and 9th av S. 18t st and 19th av S. 2226 2d st N E.		243 Neunepin av 243 Hennepin av 1165 N Dupont Prince st & 2d av S E 1506 E Franklin av 3081 Baisdell av 411 Sixth av S.	25 25 25 25 25 25 25 25	118-120 Wash, av N (8)	rm, box ace ttNic.lland av S rsity av SE oest NE Western av. nt av N
11.35 99.34 96.34	40-000	========		88888888	1:45 a m	

*One cow burnt.

JUNE-Continued.

Total in-	\$1.000.00 2.500.00 1.000.00 1.000.00	2.500.00 1.200.00 4.300.00 100.00
Total loss, Total in surance	\$10.00 \$5	15.00 10.00 10.00 10.00 5.00 5.00 20.00 46.00
Cause.	Overheating Unknown Rekindled Rekindled Sport, combustion Rekindled Boys with marches Boys with marches Boys with marches I amp explosion Phosphorous in base men Chindown Hot ashes Oil stove explosion Hot ashes Chinmey fire Chinmey fire Chinmey fire Chinmey fire Combustion Sport, combustion Sport, combustion Conknown	Spark from chimney 75.00 2.500.0 Lanpataneous comb'n 75.00 2.500.0 Fireworks 1.00 1.200.0 Chknown 1.00 1.200.0 Fireworks 1.00 1.200.0 Gasoline explosion 5.00 10.00 Spark from stack 5.00 10.00 Gasoline stove mis taken for free 1.00 4.300.0 Prairie fire 5.00 1.200.0 Prairie fire 5.00 1.000.0 Chuknown 20.00 4.300.0 Handrie fire 1.000.0 1.000.0
Use.	Stable Stable Store Stable Barn Store Dwelling Dwelling Meat market Factory.	Dwelling. Haystack. Dwelling. Brush heap. Dwelling. Saloon. Dwelling. Statom. Dwelling. Statom. Coalshed. Platform. Coalshed. Platform. Platform. Coalshed. Platform. Platform. Woodyard. Barn.
Occupant.	Same Famouse Same Froecupied N. Lowenthal M. D. LaRue Same P. Scheffer Same Same Same	
Owner.	as. Atwine. W. Star Oil Co. Martin. L. & M. Ry. Co Loomis. M. Budkin. M. Budkin. M. Hall M. Hall M. Matter M. Mall	JULY, 1889.
Class of building.	d 9th av SE 2 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 frame 2
Location.	1000 11th av N 1 frame C 1 frame C 2 fs and 9th av SE 2	312 N Coffax av. 256 Deli place. 25409 eth av S. 601 Spring st NE. 116 6th st NE. 12a/i'rst& 23d av NE. 2549 Bridge square. 29 Bridge square. 29 Nicollet av. 257 Nicollet av. 251 Nicollet av. 251 Nicollet av. 252 Nicollet av. 2
Time of day.	18.10 18.20 18	1.00 PB BB
Day.	2222224425522233333333333333	——

\$2,335.00 1,2900.00 2,000.00 3,000.00	1,300.00
\$2,390,000 15,000 10	15.00 10.00 25.00 25.00
Spark from stack. Boys with matches. Electric light cross. Boys with matches. Boys with matches. Boys with matches. Carelessnes. Carelessnes. Chrown Incendiary Carelessness. Chimey free Spark from stack Carelessness. Chrown Incendiary Carelessness. Carelessness. Carelessness. Carelessness. Carelessness. Carelessness. Chromown Incendiary Boys with matches. Boyler kicked Uknown Boys with matches. Boller kicked Uknown Boys with matches. Sparks from furnace Rekindled	Incendiary Eroseue explosion. Incendiary Finknown Gasoline explosion Child'n with m'tches Gasoline explosion Boys with matches. Thinney fire Spontaneous comb Carelessness Boys with matches. Boys with matches.
Stewdust pile. House & barn. House & barn. Restaurant. Restaurant. Restaurant. Baarding house Bann Woodyard Woodyard eer Dwelling. Planing mill "" "" "" "" "" "" "" "" ""	Dwelling Elevator D Barn Hotel Stores Barn Restaurant Barn Dwelling Laundry Tailor shop. Rubbish pile Rubbish pile
Sobo	ATGUST, 1889. E. Scott. Same Geo. Lindner. Same Gillette & Bell Gillette & Bell Thos. Wiltbank Same
C. Larson E. Ferrant Ole Dahl Mpls Elevat Wesley Nell Failway H. B. Tillots W. D. Van N. James Lane James Lane J. T. Elwell State Sash a Harris Bros E. F. Menage L. F. Menage C. Nelson O. W. Owens C. Nelson O. W. Owens G. D. Lamps	AUG G. Hush, agent H. W. Tillish. E. G. Corser A. Hartman Mrs. Gravile C. J. Gravile G. Sivertson Vanderburgh. A. Brush
Sawdust pile. 2 frame. 2 frame. 3 frame. 5 frame. 2 frame. 2 frame. 3 frame. 4 frame. 11. frame. 3 frame. 4 brick. 1 frame. 5 frame. 5 % 6 was free. 1 frame. 5 frame. 6 frame. 1 frame. 7 frame. 6 frame. 7 frame. 7 frame. 8 frame. 8 frame. 9 frame. 1 frame. 1 frame. 2 brick.	frame brick brick frame frame frame brick brick brick
Waterst & 12th av NE Sawdust pile 3,500 1845 av S 2 frame 22. 43 his st 2 frame 23. 5 5 his st 2 frame 23. 5 5 his st	313 15th av S. 2 frame Sth av Sand 3d st. 2 frame Sth av Sand 3d st. 1° 5 9th st. 2° 5 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6 ° 6
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AUGUST-Continue d

Total in-	\$50.00 10.00 \$60.00 \$0.0
Total loss. Total in-	* : : : : : : : : : : : : : : : : : : :
Cause.	Store Incendiary Dwelling Light wire Lightning Tree Electric light wire Tinshop Hot ashes explosion. Dwelling Spark from loco Store Gasoline explosion Store Gasoline explosion Barn Lamp Spark from stove Dwelling Spark from stove Dwelling Spark from stove Dwelling Spark from stove Dwelling Spark from enhance
. r.se.	Store Dwelling Tree Tinshop Restaurant Bostaurant Sha ving pile Store Store Dwelling Dwelling Dwelling Dwelling Dwelling
Occupant.	[: : : : : : : : : : : : : : : : : : :
Owner.	A. McCollum C. Lee. Fletcher & Loring Dunsmoor R. W. York R. S. M. Paston Baker. Gity of Minneapolis.
Class of building.	frame Stone Stone Drick.
Location.	216 Washington av S. 1 1903 3d av S. 1908 3d av S. 1908 3d av S. 1918 E 24th st. 24th 25th av bredge 2 1918 No Neodiet av bredge 2 250 Na st. 250 Na st. 250 3ts av S. 251 10-fezh Wash, av S. 251 10-fezh Wash, av S. 251 15 Franklin av S. 251 E Franklin av S.
Time of day.	14:00 am. (15:00 am. (

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2.50 40.00 500.00 5.00	50.00		3.00	325.00 10.00	
Same. ('edar blk, mill. Spark from furness.) Geo. Boyer. Dwelling False alarm. Anderson, et al Laundry &c. Theendary. Same. Smoke house. Carelessness. Mpls. Provision Co Smoke house.	Stone, &c. Carelessness. Dwelling. Boarding house Rats with matches. Prairie fire. Rearding house, Prairie fire.	Finknown Prairie fire Cigar Stub.	Stable. Spon. combustion. Span Ductive de Duction.	Accidental Lantern upset Carelessness	
Cedar blk. mill. Dwelling Laundry &c. Smoke house Smoke house Out.	Store, &c Dwelling Boarding house	Dwelling.	Stable Coal pile. Barn.	Barn. Factory.	
Same Geo. Boyer Anderson, et al Same Npls. Provision Co	Same et al. Mrs. Summors				
T. J. Canney Mrs. Schultz. Jno. Berg. J. W. Stanchfield.	Schultz Bros. D. S. Redding D. S. Maher Chas. Couch	J. Blichfeldt D. S. Maher	E. W. Dyer. N. W. Stove Co. A. A. Camm.	s. R. Childs. A. H. Hinkle	
10:25 pm Bryant av. M.&M.By. frame T. J. Canney 1:13 pm 215 Main st NE 1 frame Mrs. Schultz 1:20 pm 1022 Hennepin av. Strame J. W. Stanchifield 1:20 pm 715 Cedar av. 1.2					
10:25 pm Bryant av M.&M.By I frame T. J. Canney 1:13 pm 215 Main st NE I frame Mrs. Schultz 4:50 pm 1022 Hermepin av Falsse alarm 10:28 pm 4222 Washington av S. Frame Jio. Berg 1:55 am 23:27 High st 1 1:29 pm 7:50 am 7:50 am 7:50 cedar av 7:50 am 7:50 am	25.85 Stevens av 518 6th av N. 191 1st st S. 18th av SE & M&M Ry 56 S 10th st.	Morgan & 26th avs N. 18th av SE&M&M Ry. Nicollet & Wash, avs. 119 S 1st st.	15-17 N 1st st. Fort av and 28th st. 805 6th av S (rear)	745Monroe stNE(rear) 518 Broadway NE	
10:35 pm 10:35 pm 10:35 pm 10:35 pm 10:35 am 10:30 am 10:30 am 10:30 am	25.05 p n n n n n n n n n n n n n n n n n n	1:48 a m 3:15 p m 11:59 a m 2:50 a m	7:45 p m 6:30 a m 3:35 a m 9:50 a m	2:27 p m 7:25 p m 8:45 p m	

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\$550.00 200.00 10.00 600.00 700.00 560.00 560.00			\$2,000.00 20.00 5,200.00 3,000.00	15.00 3.00	175.00		700.00
Barns. Lantern exploded. Barns. Carelessness. Hotel Cirarestub. Barn Cirarestub. Inknown. Inknown. Borne Cirarestub. Former Cirarestub. Former		Unknown Lamp upset.	Unknown From furnace Lamp upset Spark from stack Re-kindled stack Incendiary	False alarm Incendiary Hot ashes Spark from stack	Spark from stack Carelessness—ashes.	Charleyn Bog fire Lamp upset Bog fire Carelessness Carelessness	Accidental Chimney fire. Woods on fire
Barns. Barns. Barns. Hotelling. Dwelling. Store Powelling. Store Powelling. Fremenent Hotel. Grocery Saloon, etc Tenement		Tenement	op. Brl Co Cooper shop. Offices, etc. Prediction of the property of the cooper shop.	Store	Fron works. Hotel Dwelling. Boarding house	Dwelling. Bed-hot stand.	Boiler shop. Dwelling.
Same Jas. Lindsey Same Same Fineceupled Same Helgerson Bros Chas. Dongan. J. T. Grant.	OCTOBER, 1889.		Fagle Co-op. Brl Co Cooper shop Various. Offices, etc Mrs. Miller. Dwelling Dry Kiln	Unoccupied	Same	П. П. Вакет	J. H. Reid
- Smith. Mrs. Hefretin J. H. Hilger. Geo. Butler. P. Karlquist. Geo. B. Sherpard. C. H. A. Richter. John T. West. F. S. Gilson. A. Von Ende. C. B. Newcomb. Gale & C. C.	OC.10	Gale & Co	Mrs. Stephens Fagle Co-op. Brl Co (cooper sh Min. Tribune Co. Various. Offices, et M. H. Crittenden Mrs. Miller. Dwelling, Nelson, Tenney & Co. Diy Kiln. Sarah E. Harrison D. Harrison & Co. Store, etc.	E. G. Potter	Lockw'd, Upton & Co G. Warmelon Same	S. E. Farmum II. II. Baker	J. B. Bassett
frame brick.		g frame	1112111				
300 Unfeity av. SE2 frame 284 S. Aldrich av. 115 118 N. Let St 201 Clinton av 201 Clinton av 201 Clinton av 201 Clinton av 201 Frame 201 Frame 202 Frame 203 Frame 203 Frame 204 Cedar av 205 Cedar av 205 Cedar av 206 Frame 206 Frame 207 Frame 208 Frame		426 First av N. 516 Fifth st NE. Cor Taylorand Win-		Con Western & Humbold as N. Cor. Western & Humboldt as N. Cor. Western as N. Cor. Western as N. Cor.	Main st and 2d av SE 17 1st st N 2611 25th av S 2613 25th av S 216 Wash, av N	Marshall & 21st av se Bog affro- Marshall & 8th av N Woodpile. 1508 5 9th st. 22d avsse Bog frame Marshall & 22d avsse Bog fre 257 Addreh av S. 11° frame Wash & 22d av N Frame	5th ay S & 2d st. 1513 Wash, ay N. Cor. Western ay and Cedar Lake road. 24 S Dupont ay.
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Total in-			: : :	1.000.00 90.00 650.00 f health.	\$5,200,00 1,390,00 3,00,00 2,200,00
Total loss. Total in-	166.00 166.00 1.00	00.7	300.00 195.00 100.00 900.00	15.00 15.00 30.00 30.00 by board o	85.00 1.400.00 1.400.00 400.00 40.00 11.00 90.00
Cause.	Defective chimney. Spark from chimney Grass fire. Spks from locomotive	Ladie's dress on fire. Carelessness ashes. Spks from locomotiv Carelessness—ashes. Vax from locomotiv Spontaneous comb.	Brush fire Unknown Lamp explosion Carelessness	Carefrequet stove 10,00 1,000,000,000,000,000,000,000,000	A ceidental stove. Electric light whe. Electric light whe. I nknown. Lamp explosion. Supposed incendiary Carelessness. Child with matches. Carelessness. Car
L'se.	Dwelling.	Dwelling Tenement Barber shop	Store Dwelling Barns Dwelling Dwelling	Barn Scale house. Tenement Barn Dwelling.	Union depot. Switch house. Saloon. Dwelling Barn. Tenement Barn. Tenement Barn. Tone etc. Dwelling.
Occupant.	Frank Newton. A. Carlson et al. C. H. Peterson	Same A. Rivish.	Ben Kruse. Ely & Hambright. Same Ira Wordley. Same	R. Horn	NOVEMBER, 1889. Same Same Unoccupied Same Same Ilay E. J. Jacobson T. B. Carrl Roberts & Roberts & Unoccupied Same
Owner.	John Perkins. A. Carlson. J. F. Collum.	St. P. M. & M. Ry	Jacoby S. Averill et al. Mrs. Philbrook. Mrs. Flaherty Mrs. Flaherty		brick M. N. R. y Co. ning N. P. B. R. Co. frame C. S. Younglove G. Christianson G. S. Younglow G. C. Christianson G. C. Christianson G. C. Christianson G. S. Hutchins E. A. Hutchins E. A. Hutchins G. C. Christianson G. C. Christian
Class of buildidg.	frame	Z Hanne. Ties and bark First frame. First frame. Z stone. Z stone. Russh fine	2 brick 2 frame. 1½ 1½ 3 veneer	2 frame	brick. rame ning frame " " " " " " " " " " " " " " " " " " "
Location.	250 5th av N. 113 13th av S. 1147 Lyndale av 25th st & Stevens av N. P. R'y & river NE 201 SE 4th st	m 908 8th av S. Rubbish pile. In frem intav & M&MRy Ties and bark St. P. M. & M. Ry. In 1700 N ist st. In 7th av N& 2d st Ry yd FPt crld of wd In Neollet & Wash av S. stone. In Collet & Wash av S. stone. In Collet A wash av S. stone.	248 Nicollet av 1207 Wash, av 8. 3530 S. Lyndale av 27 NE 36 st. 907 Plymouth av N.	443 20m av S. 20m av S. 453 20m av S. 454 20m av S. 400 11th av N. 400 11th av N. 1142 Wash. av S. 1174	Hen'pin av& High st. 2 brick. Sth av N and 2d st. 1 frame. 124 Wash av S. 242 lifeh av S. 2542 lifeh av S. 2543 lifeh av S. 2544 av S. 2544 av S. 2554 av S. 2555 lifeh av S. 25
281	ದಿದ್ದರಿ ದ	12:45 pp m 13:45 pp m 13:00 pp m	ದ ದಿನದಿನದ	EBB EB	06-7-20-20-20-20-20-20-20-20-20-20-20-20-20-
Day.	22222	<u> </u>	2 83882288	88 885	

\$5,000.00 800.00 600.00	1,000,00 1,000,00 1,000,00 1,200,00 1,200,00 1,500,00 1,500,00
25.000.00 25.000 25.000 175.00 175.000.00	1.00.00 1.0
Overh'ted fireplace Unknown Charlown Unknown Unknown Accidental Def. stove pipe Gasoline stove Spark from loco.	Smoke mistaken for Ealse alarm Unknown Unknown False alarm Chinmey fire Chinmey fire Chinmey fire Chinmey fire Cyerheated Carelessness Spannander Spontaneous comb. Chinmey fire Chinmey fire Carelessness Spontaneous comb. Chinmey fire Carelessness Spontaneous comb. Chinmey fire Chinmey fire Chinmey fire Chinmey fore Carelessness Spannander Carelessness Chinmey fore Chinmey fore Chinmey fire Carelessness Supposed incendiary Carelessness Supposed incendiary Carelessness Spank from locomo. Spank from locomo. Defective stovepipe Child with matthes Child with matthe
Dwelling Factory Bactory Shanty Buelling Grocery Dwelling Estaurant Woodpile	Store and dwelling. Store and dwelling. Vet. hospital Grocery Vet. hospital Grocery Vet. hospital Boarding house Shoe shop Hotel. Boiler room Store &c. Boiler room Woodshed Bann Woodshed Bann Woodshed Store Boiler room Store Boiler Roodshed Barber shop Flane Store Store Borogher shop Flane Store Store Borogher shop Flane Store Dwelling.
Same Unoccupied Unoccupied Unoccupied Unoccupied Unoccupied Unoccupied Unoccupied Same Same Same DECEMBER, 1899.	Same Same Sherry Bros Same C. E. Braden Same C. E. Braden Same Kreger Kreger Kreger W. Beuhler Bross W. Arious W. Arious W. Hellew H. Osteryoung W. Bellew W
M. J. Delaney Same Co-operative Cooper Fluor White & Son. Same C. E. Popp. Jno. C. Tribune Building Co Same DECEMBER	Bank of Minneapolis Farnham & L S. B. Loye C. C. Lyford State of Minnesota E. H. Boulton C. C. Lyford C. M. Pond D. N. Pyle D. N. Salith C. M. S. Smith C. S.
	b. 6a
3201 Nicollet av	Cor Nicollet av&åd st 5 stone. Re day&Acks nst NE. 2 Ma av S. 2 12 3d av S. Chiver. Campus SE. 11 33 dav S. Chiver. Campus SE. 12 35 dav S. Chiver. Campus SE. 2 frame 13 85 5th st N. 12 3d av S. 12 14 4 5 5th st N. 2 frame 2 2 1 4 5 5th st N. 2 1 2 3d av S. 2 2 2 3 5th st N. 2 2 3 5 5th st N. 2 3 5 5th st N. 2 3 5 5 5th st N. 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
DOSDSDSSSS	10000000004444000000000000000000000000

Esti	mated loss on buildings	\$121,755.91 151,119.75
	Total	\$272,875.66
Insu	rance on buildings	
	Total	\$260.000.00
Loss	LOSSES OVER INSURANCE RECEIVED. on buildings contents.	\$6,755.9 6,119.7
	Total	\$12,875.6
Tota	INSURANCE INVOLVED. Il insurance on buildings contents. Total	377,760.0
ear. 1880 1881 1882 1883 1884 1885 1886 1887	COMPARISON FOR THE LAST TEN YEARS. No. of alarms. 171 164 197 298 316 348 348 366 379	Loss. \$191.442.0 439,321.0 410.209.0 660,070.0 234,854.6 233,349.5 311,337.1 1,360,247.6 104,316.0

Exhibit E

REPORT OF THE SUPERINTENDENT

OF THE

FIRE ALARM TELEGRAPH.

MINNEAPOLIS, MINN., January 1st, 1890.

F. L. Stetson, Esq., Chief Engineer Fire Department:

DEAR SIR—Herewith I submit my annual report of the workings of the Fire Alarm Telegraph for the year ending December 31st, 1889:

The following number of alarms has been received and transmitted:

First alarms	484
Second alarms	
Second and Third combined.	
General alarms	
Specials	6
Total	405

During the year the system has worked satisfactorily, giving reliable alarms to the department.

FIRE ALARM STATIONS.

The system has been extended in the 1st, 3d, 4th, 7th, 10th, 12th and 13th Twelve new fire alarm stations have been added. The following is wards. a list of t

their n	um v	ers	ana	locations:
Station	175.	Soo	Line	Railway shops.

- 249.
- 267. 271.
- 273.
- 458.
- 461.
- Soo Line Railway shops.
 Bloomington avenue and East Lake street.
 East Twenty-fifth street and Thirtieth avenue south.
 Sixth street and Ninth avenue south.
 East Seventeenth street and Ninth avenue south.
 Western and Newton avenues north.
 Plymouth avenue and Fourth street north.
 Lyndale avenue and Twenty-sixth avenue north.
 Second street and Thirty-second avenue north.
 Stevens avenue and East Sixteenth street.
 Chicago avenue and East Thirty-eighth street.
 Third avenue south and East Thirty-eighth street. 462
- 66 463. 66 627.
- 66 635.
 - Third avenue south and East Thirty-eighth street.

LINES.

A new line has been built to Shingle Creek Pumping Station and gong placed therein. One new circuit has been constructed, but cannot be operated until the underground system is completed.

AMERICAN DISTRICT TELEGRAPH.

The American District Telegraph as an auxiliary system is constantly growing in favor, furnishing as it does a rapid and reliable means of sending alarms to the department. The efficiency of its management and reliability of its operation strongly recommend it for residences and buildings, and more particularly those distant from fire alarm stations. Seventeen (17) alarms have been received from the A. D. T. during the past year.

RECOMMENDATIONS.

In the way of improvements to this branch of the department, would respectfully recommend that the present automatic be changed to a central office system, and circuits and boxes largely increased. The city in fire alarm facilities is hardly keeping pace with other cities of less population and commercial importance. What there is is good, but there is not enough of it.

In conclusion I would respectfully offer thanks for cordial assistance and courteous favors shown me. Yours truly,

Z. T. MORRISON,

Sup't. Fire Alarm Telegraph.

Alarms, How Given.

								21.0	wii	10, -	1100	G	iven	•							
Box.	Times.	Box.	Times.	Box.	Times.	Box.	Times.	Box.	Times.	Box.	Times.	Box.	Times.	Box.	Times.	Box.	Times.	Box.	Times.	Box.	Times.
15 15 16 17 18 19 20 20	8 8 2 10 10 10 10 10 10 10 10 10 10 10 10 10	37 38	2 1 1 1 2 6 1 2 7 1 2	41 42 45 46 47 48 49 61 63 64 65	8 3 3 3 2 2 2 2 2 1 3 1	67 69 71 76 78 121 123 125 126 127 129	5 6 1 6 1 6 5 5 3 1 3	132 135 136 138 139 142 143 145 146 147 148	4 2 4 1 .2 2 2 2 5 1 3	149 152 153 154 157 158 162 164 167 172 173	11323311112	174 213 214 215 216 217 218 219 231 234 236	115522213413	237 238 241 243 245 246 247 248 261 263 264	21316221412	265 314 316 317 318 321 324 341 342 345 423	111211262123	425 426 427 429 431 432 435 436 437 438 451	3 2 2 2 1 2 5 3 2 1 4 1	452 453 357 612 614 621 623 625 631 632 634	5 1 1 1 3 3 2 1 2 1 1
	Sti A. Te Pe Sec Sec Ge	D. Teph	al sone al sonal ala	arms	ird	com	bine	d												326 104 17 32 5 484 3 1 1 6	

	10	we E	nown	ry in	10.01	ecre cer	ice D	ug oj	Au	11100.			
Sunday	35 2 4 8 9 2 to January.	86 296 19 February.	04.2.2.8.1.ε. March.	the sector April.	May.	9unf 1une.	3 5 14 77 8 10 4 51	Tangany 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	September.	Scassella October.	Secrement November.	# State & & seconder.	808 808 808 808 808 808 808 808 808 808

Exhibit F.

REPORT OF THE VETERINARY SURGEON.

MINNEAPOLIS, MINN., January 1st, 1890.

F. L. Stetson, Esq., Chief Engineer Fire Department:

A. 95 B. 16

DEAR SIR—In submitting my report for the year just closed, I beg to acknowledge the uniform courtesy which has been shown throughout the department to me while in the discharge of my duties, and which has greatly aided me in my work.

There are six horses in the infirmary at the present time.

I would respectfully recommend the sale of several horses, which are totally unfit for department service.

Professional calls have been made at the several fire stations as follows:

	C	75	()	78
			<u>O</u>	
	<u>D</u>		<u> </u>	14
	E	40	Fire alarm telegraph	14
	F	52	Police department	21
	G	40	Water works	9
		60		8
	H		Workhouse	
	<u>I</u>	20	Sewer department	4
	J	75	General and extra	43
	K	28		
	L	25	Total	830
	he following is a summary of a	dise	ases requiring medical treatmen	at from
			does requiring medical creatmen	10 110111
an	uary 1, 1889, to December 31, 18	009:		
	Scratches	7	Water	7
	Laryngitis	12	Colds	10
	Worms	19		
			Colic	16
	·Foul		Mouth	4
	Footrot	1	. Sweeney shoulder	6
	Hips lame	3	Indigestion	2
	Debility	20	Feet lame	45
			T cet lame	
	Corns	15	Lampers	37
	Bones broken	2	Catarrhal fever	5
	Cuts	7	Pinkeye	5
	Teeth	54	Catarrh	4
		9	Cough	45
	Interfering			
	Eyes	6	Surfeit	3
	Abcesses	4	Lame back	2
	Broken hip	1	Burnt	2
	Cancer and warts	1	Hock	4
	Bleeding head	5	Heaves	9
		ĩ	Dominion foot	4
	Founder		Pommey feet	1
	Lung fever	4	Nasal gleet	1
	Inflammation of stomach & bowels	2	Stifles	6
	Quarter crack	4	Sore throat angina	8
	Överwork	2	Quiter	1
	Bronchitis	4	Rheumatism	17
		12	Dhannatism	6
	Blind staggers	- 1	Rheumatic fever	9
	Thrush	14	Dropsy	4
	Influenza	6	Shoulder, sprain	5
	Chills and fever	6	Lame shoulder	24
	Warts	4	Loss of appetite	17
	Cork foot.	17	Legs	30
			Legs	
	Knee sprung	2	Grease heel	1
	Pastern wounds	8	Head	. 6
	Broken foot	1	Cramp	3
			ULATION.	
	Number of professional calls			839
	" diseases treated		***************************************	571
			ra	600
			ICATION.	
	Diseases of head and chest			245
				119
				207
	reet and legs			201
	matal.			E774
	Total			571

During the year the department has lost only one horse, Sam, by accidentally falling on ice and breaking his hip. The average number of horses in the hospital during the year has been thirteen.

Respectfully submitted, JNO. W. HORTON,

Veterinary Surgeon.

ANNUAL REPORT

OF THE

BOARD OF POLICE COMMISSION,

OF THE

City of Minneapolis

For the Fiscal Year Ending December 31, 1889.

COMMISSIONERS:

E. C. BABB, Mayor, W. R. GUILE, N. H. GIERTSEN.

MINNEAPOLIS: HARRISON & SMITH, PRINTERS. 1890.

BOARD OF POLICE COMMISSIONERS.

MAYOR E. C. BABB,

Ex-officio and President.

N. H. GIERTSEN, Vice-President.

W. R. GUILE.

W. M. BRACKETT,
Sup't of Police.

H. A NORTON,

Police Clerk and Secretary.

SECOND ANNUAL REPORT

OF THE.

BOARD OF POLICE COMMISSIONERS.

MINNEAPOLIS, MINN., January 1, 1890.

To The Honorable, The City Council, City of Minneapolis:

GENTLEMEN—In compliance with section 12 of an act of the legislature to amend the city charter of the city of Minneapolis, approved March 5, 1887, and amended April 13, 1889, the board of police commissioners have the honor to herewith submit to you their second annual report, for twenty-one months, being from April 1, 1888, to January 1, 1890. No report was made for the year 1888-9 on account of several bills being introduced in the legislature looking to the changing or repealing of the law relative to the board of police commissioners. The law as finally amended is as follows:

AN ACT

[H. F. No. 433.]

TO AMEND THE CHARTER OF THE CITY OF MINNEAPOLIS, IN RESPECT TO APPOINTMENT OF POLICE COMMISSIONERS AND CONTROL OF THE POLICE,

Be it enacted by the Legislature of the State of Minnesota,

Section 1. That chapter six (6) of the charter of the city of Minneapolis, being that certain act entitled "An Act to amend and consolidate the charter of the city of Minneapolis," approved March 8. A. D. 1881, as amended by act approved March 5, A. D1887, entitled "An act to amend the charter of the city of Minneapolis in respect to the appointments and control of the police," is hereby amended so as to read as follows:

Section 1. There is hereby created and established in and for the said city, an official board, which shall be styled "The Board of Police Commissioners for the city of Minneapolis," in which shall be vested, subject only to the limitations herein contained, all the powers of said city, connected with and incident to the establishment, maintenance, appointment, discipline and control of its police. Said board shall have the custody and control of all books, records, teams, vehicles, telegraph and telephone lines and instruments, station houses, lockups and all other public property pertaining to the police department of said city, and may, out of any money appropriated by the city council for that purpose, provide and maintain such other buildings, facilities and equipments as it may deem essential to the efficiency of said police. It shall have authority to appoint and remove, at its pleasure, all members of the police force, including clerks, detectives, watchmen, jailors, teamsters and other employes, and to prescribe the title, rank and duties of each, and it may require a bond from any such members of said police force or other officers and fix the conditions thereof. It may fix the compensation of all such appointees, subject to the approval of the city council, and may make all needful rules and regulations for the efficiency and discipline of such police force, and may promulgate and enforce general and special orders for its government.

Sec. 2. Said board shall consist of three (3) commissioners, including the mayor of the city of Minneapolis, who shall be ex-officio a member of said

or if a vacancy shall occur at any time in the board hereby created, by death, resignation

or otherwise, it shall be the duty of the city clerk to notify the said governor in writing thereof; and thereupon it shall be the duty the said governor, and he is hereby empowered thereof: and thereupon it shall be the duty the said governor, and he is hereby empowered to fill such vacancy by appointment, as herein provided, for the selection and appointment of commissioners. It shall be the duty of the persons so selected and appointed to file in the office of the city clerk, within five days after the notice of their appointment, as herein provided, their acceptance or refusal of the appointment in writing. That the term of office of the commissioners so selected and appointed, as herein provided, shall be foundly wars, provided between the theory of our of the commissioner first selected. four (4) years; provided, however, that the term of one of the commissioners first selected and appointed after the passage of this act, shall expire on the first Monday in January, 1891, and of the other on the first Monday in January, 1893, and the said governor shall designate in his appointment which of the persons so first selected and appointed shall

serve for the short and which for the long term.

That in the month of December, 1890, and in the month of December bi-ennially thereafter, the said governor should select and appoint, as herein provided, one police commissioner for the term of four years.

That whenever an appointment is made, as herein provided, to fill a vacancy arising from any cause, the person appointment is made, as herein provided, to fill a vacancy arising from any cause, the person appointed to fill such vacancy shall hold office for the unexpired portion of the term to which he was appointed, and in all cases, appointees under this act shall hold office until their successors are appointed and have qualified.

If for any reason the said governor should fail to make appointments as herein provided, such appointments may be made at any time thereafter, with the same force and effect as if made at the time herein provided.

No one appointed under the provisions of this act shall, during his term of office as police commissioner, hold any other office under the government of said city.

All necessary expenses incurred by the commissioners in the discharge of their official duties shall be a valid charge against said city, but all bills for such expenses shall first be approved by the city council.

Said board shall make to said city council a detailed report of its doings and expenditures—made or incurred—at the close of each quarter and an annual report at the close of each year; and shall, whenever called upon by said council, submit thereto for examination any of its books or papers and furnish information and estimates as to the needs and requirements of said department. It shall be the duty of the city council of said city to audit; allow and cause to be paid the salaries of all employees of said police force and all reasonable and proper charges and expenses incurred by said board in and observative and expenses incurred by said board in and observative and expenses incurred by said board in and observative and expenses incurred by said board in and observative and expenses incurred by said board in and observative and expenses incurred by said board.

said city to audit, allow and cause to be paid the salaries of all employes of said police force and all reasonable and proper charges and expenses incurred by said board in and about its administration of the police department of said city.

SEC. 3. Before exercising the duties of their office they shall severally take, subscribe and file in the office of the city clerk, an oath that they will support the Constitution of the United States and of the State of Minnesota, and faithfully perform the duties of their office; and that in no case will they favor the appointment or removal of any person to or from any position connected with said police force on account of any reason other than his fitness or unfitness in their best judgment.

SEC. 4. It shall be the duty of the board to provide that at all times of day and night, everywhere within the limits of said city and where the jurisdiction of said city shall extend, the public peace and order shall be preserved, crime prevented, offenders arrested, the rights of person and property protected, and all ordinances and laws in force in said city duly observed and enforced. city duly observed and enforced.

Said board shall have power to issue subpœnas, attested in the name of its president, to compel the attendance of witnesses before said board, in any proceeding authorized its rules and regulations, and any member thereof may administer oaths to such thesses. Such subpoenas may be served by any police officer.

witnesses.

It shall appoint one of its members as vice president of said board and fix the term of

his office.

SEC. 5. Said board may in case of any mob, riot, pestilence, invasion or other emergency or for election days and days of public celebration or parade, appoint as many special policemen as it may deem necessary, who shall have all the powers and perform all the duties of regular policemen. The board may likewise, at the request of any person, society or organization, appoint policemen or watchmen, who shall serve without expense to the city and have police powers to preserve the peace and protect property within such limits and at such places as may be designated in such appointment, but such special policemen or watchmen shall not exercise any authority or wear any badge of office outside the limit is odesignated. of office outside the limit so designated.

The two police commissioners appointed under the provisions of this act shall serve

without compensation.

SEC. 6. Said board shall adopt suitable rules for the government of its meetings, and

two members thereof shall constitute a quorum for the government of its meetings, and two members thereof shall constitute a quorum for the transaction of business.

SEC. 7. No person shall be appointed a member of the said police force who cannot read and write the English language understandingly, or who has been convicted of any crime. No person shall be appointed a member of said police force who shall not have been a resident and legal voter of said city for at least three years preceding his appointment; nor shall any person be appointed on the police force who is over thirty-eight (38) years of age, except he be an honorably discharged Union soldier or sailor of the United States.

All policemen so appointed shall possess all the common law and statutory power of constables, and and any warrant for search or arrest issued by any magistrate or court of record in Hennepin county, may be executed in any part of said county by any member of

said police.

said police.

SEC. 8. Nothing herein contained shall give said board jurisdiction over such police force as the board of park commissioners of said city may, at any time, be authorized by law to organize and maintain; but the creation, management and direction of such park police shall remain where the same now are or may hereafter be vested by law.

SEC. 9. Until the appointment and qualification of the board of police commissioners, herein provided for, the present police commission of said city shall be continued in force, and all the provisions of said charter appertaining thereto, and which are hereby superseded, shall remain in full force and effect so far as may be necessary for the proper police protection of the said city; but immediately upon its organization under this act

said board shall assume control of said police, and thereafter administer the police department of said city under the provisions of this act.

SEC. 10. The said commissioners or either of them may be removed from office by the district court of said Hennepin county, after trial and conviction upon the petition with sworn charges, presented by not less than ten (10) reputable freeholders of said city, if it shall appear at said trial that the said commissioner or commissioners have been guilty of misdepenser or reall-freeholders, in office pudge this sait. demeanor or malfeasance in office under this act.

Sec. 11. All acts and parts of acts inconsistent with the provisions of this act are

hereby repealed.
SEC. 12. This act shall take effet and be in force from and after its passage.

Approved April 13, A. D. 1889.

STATE OF MINNESOTA, Ss.

DEPARTMENT OF STATE. I, H. Mattson, secretary of state of the state of Minnesota, do hereby certify that I have compared the foregoing copy with the original act in my office of House File No. 433 and that said copy is a true and correct transcript of said original and of the whole thereof.

thereof.
In testimony whereof, I have hereunto set my hand and affixed the great seal of the state, at the capitol in St. Paul, on this eighteenth day of April, A. D. 1889.

[SEAL.]
H. MATTSON, Secretary of State.

POLICE FORCE.	
.The total number on the rolls of the police force March 31, 1888, was 169.	
The following changes have been made in the department since that dat Appointments 63 Resignations 17 Removals 15	e
Leaving the total number on the force December 31, 1889, as follows: Superintendent	
Inspectors, detailed 7 Captains 5 Lieutenants 4 Sergeants 13	
Sergeant, mounted 1 Patrolemen, mounted 16 Patrolemen 135 License Inspector, detailed 1 Court Officers, detailed 4	
Jailors, detailed 6 Drivers 6	
Total	
POLICE HEADQUARTERS	

POLICE HEADQUARTERS.

Superintendent	ity	Ho	ıll.								1
Captain				 	1						
Captain Inspectors, detailed License Inspector, detailed				 	1						
Total											
FIRST											

		Centra	Station	Lockup.		
Captain						
Lieutenant						1
Court Officers	detailed	1				
failors.	66				· · · · · · · · · · · · · · · · · · ·	
Drivers.	6.6					
Drivers,						
77743						(2)
Total						0

SECOND PRECINCT.

	Corner	Centra	l Avenue	and Main Street.	
Captain					1
Lieutenant					
Sergeants					
Patrolmen		• • • • • • • •			29
Total					34

THIRD PRECINCT.

Captain. Cedar Avenue Corner Fourth Street.	4
Lieutenant Sergeants.	1
Patrolmen.	26
Patrolmen Jailors, detailed Drivers, detailed	2
Total	
FOURTH PRECINCT.	
1310 Washington Avenue North.	
Captain Lieutenant	1
Sergeants	3
Sergeants. Patrolmen Jailors, detailed. Drivers, detailed.	24
Total	33
FIFTH PRECINCT.	
Twenty-eighth Street and Blaisdell Avenue, Sergeant, mounted	1
Sergeant, mounted Patrolmen, mounted Patrolmen, foot.	16
Total	No. (1996)
EXPENSE OF DEPARTMENT.	MA
Nine Months, April 1, 1888, to January 1, 1889.	
	\$124.230.93
Pay roll of the department. Head quarters—printing, stationery, telegrams, repairs, etc. First precinct—(central station) fuel, lights, repairs, etc. Second precinct—rent fuel, lights, repairs, etc. Third precinct—rent, fuel, lights, repairs, etc.	1,509,37 2,653.52
Second precinct—rent fuel, lights, repairs, etc	418.66 551.85
	506.17 29.35
Fifth precinct—rent, fuel, lights, repairs etc. Patrol wagon No. 1, central station—feed, repairs, etc. Patrol wagon No. 2, Third precinct—feed, repairs, etc.	302.44
Patrol wagon No. 2, Third precinct—feed, repairs, etc	181.78 292.10
Signal service—rent telephone houses, repairs, etc. Property account—furniture, clubs, belts, helmets, etc. Board police commissioners—rent, telephone, stationery, etc	168.48 127.50
Total	
EXPENSE OF DEPARTMENT.	4200,0111120
January 1, 1889, to January 1, 1890.	
Pay roll of the department	\$179,566.04
Pay roll of the department. Head quarters—printing, stationery, telegrams, repairs, etc. First precinet—(central station) fuel, lights, repairs, etc.	2,136.01 3,550.58
Second precinct—rent, fuel, lights, repairs, etc. Third precinct—rent, fuel, lights, repairs, etc. Fourth precinct—rent, fuel, lights, repairs, etc.	489.72 820.31
Fourth precinct—rent, fuel, lights, repairs, etc	603.84 438.04
Patrol wagon No. 1, central station—feed, repairs, etc.	531.87
Fifth precinct—rent, fuel, lights, repairs, etc. Patrol wagon No. 1, central station—feed, repairs, etc. Patrol wagon No. 2, Third precinct—feed, repairs, etc. Patrol wagon No. 3, Fourth precinct—feed, repairs, ctc. Signal service, wat of telephones reneive the	257.68 141.94
Signal service—rent of telephones, repairs, etc	586.78 1,809.78
Board of police commissioners—salaries, rent of telephones, station-	1,505,04
Patrol Wagon No. 3, Fourth predict—feed, repairs, ctc	1,551.00 252.92
Total	\$194,241.55
Veglect of duty	9
Intoxication	
Intoxication. Violation of the rules. Abusive treatment of prisoner. Malicious arrest.	
Absence without leave	
Absence without leave. Assault and battery. Obtaining leave of absence under false pretence. Asleep while on duty. Disobations of orders.	1
Asleep while on duty	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Disobedience of orders Conduct unbecoming and officer and gentleman	ī
Total	37

FINDINGS.	
Complaints dismissed	13
Removed from force	8
Reprimanded	
Reprimanded and fined.	5
Fined	
Total	
VALUE OF REAL ESTATE.	
Inventory of Public Property Appertaining to the Police Department, City of Min	nneapolis.
First precinct, central lock-up building	27.778.86
First precinct, rear 56x60, lot 7, and part of lot 8, blk. 38	22,000.00
Third precinct, 100 feet, lot 10, blk. 178, Minneapolis	5,000,00
Third precinct building, police stable	960.00
Third precinct, improvements in basement of Scandia bank for police	
station	4,671,50
Fourth precinct, lot 14, blk, 34, Case et als, addition to Minneapolis	2,500,00
Fifth precinct, Blaisdell & 28th st., building and improvements	1,000.00
Value of miscellaneous property, such as safes, desks, tables, chairs,	_,
clubs, belts, etc.	3,000.00
Value of patrol wagons, sleighs, harness, three span of horses, etc	2,800,00

The attention of your honorable body is called to the very complete report of the superintendent of police, clearly showing what is being accomplished in this department of our city government, and also its present needs in Respectfully submitted, order to make it more efficient.

E. C. Babb, Mayor and President.

..... \$69,710.36

N. H. GIERTSEN. W. R. Guile.

SUPERINTENDENT'S REPORT.

HEADQUARTERS POLICE DEPARTMENT, MINNEAPOLIS, MINN., January 1, 1890.

To the Honorable the Board of Police Commissioners:

GENTLEMEN-I have the honor to herewith submit the annual report of the police department for the year ending December 31, 1889.

The composition of the force at this date is as follows:

Superintendent			1
Captains			1
Lieutenants		Pawnbroker inspector	1
Sergeants	14	Court officers	4
Detectives			
License inspector			6
Patrolmen, mounted	16	Drivers	6
Jailors	6		
		Total	100

The distribution of the force for patrol duty throughout the city is as follows:

	Sergeants.	Patrolmen.	Total.
First patrol—7 a. m. to 6 p. m	4	*56	60
Second patrol—6 p. m. to 4 a. m,	5	40	45
Third patrol-9 p. m. to 6 a. m.	4	40	44
This makes the force on duty between 9 p. m. and 4 a. m	9	80	89
WO 2 0 41 1	·	00	00

Six of this number on post stations.

The day foot patrol covers a total of five (5) square miles, or 845 blocks—an average of 16 9-30 blocks for each man.

The night foot patrol covers an area of eight (8) square miles, or 1,352 blocks—an average of 16 72-80 blocks to each man.

The mounted patrol covers an area of 28½ square miles, or 4,816.5 blocks.

This leaves an area of 16½ square miles not covered or patrolled by either foot or mounted force; the total area of the city being fifty-three (53) square miles.

The shortest beat cared for by our officers is two (2) blocks, the longest seventy-six (76) blocks.

I desire, respectfully but carnestly, to call your atttention to three (3) facts

shown by the foregoing statement:

First. There are miles of streets in the city that are never visited by any member of the police force unless an officer is especially summoned.

Second. A majority of the beats are entirely too long to be adequately guarded and policed.

Third.—Fifty (50) additional patrolmen should be at once added to the force if the duties and responsibilities placed upon it by the commission are fulfilled, and the services which the public have a right to demand, is given.

In this connection I desire to call the attention of the commission to exhibit "A" (page 341) showing comparison with other cities, hereto attached.

EXPENSE.

This is one of the most important factors in the consideration of the administration of all municipal departments, but especially so of the police

department.

Minneapolis has, with almost miraculous rapidity, developed from a village of a few thousands, to one of the leading cities of the west. And compared with other cities of like developement it has as a rule been an orderly and law-abiding community. Hence the police department has been so far ignored by the governing authorities that it has fallen far behind the other administrative departments of the municipality. But notwithstanding these facts, there is a general impression prevailing in the community that the expenditures for police protection are onerous and extravagant. A careful consideration of the comparative statement herewith submitted will demonstrate that this department has been run not only with economy, but that its treatment has reached the border-land of absolute parsimony. A careful and painstaking study of exhibit "A" will demonstrate the perfect truthfulness and reliability of this statement.

This table, if it proves anything, shows conclusively that the public in demanding better service from the police department is asking something for nothing—is demanding labor without making provision for the payment of wages. The rule fixed by men of the largest practical experience in the management of police affairs, is that a municipal police force should number at least one member for each seven hundred (700) of population. You will observe that the Minneapolis force numbers but one member for each twelve

hundred (1200) of population.

The five cities noted (see table) shows an average cost of police (per capita of population) of \$1.44, while the cost in this city is 88 cents per capita—or,

in other words about 40 per cent. less than the five cities named.

In this connection I also wish to call your attention to exhibit "B" (page 341) showing comparative cost during past five (5) years of our department and demonstrating that the expenditures of this department last year (taking into consideration the population) was less than former years.

DISCIPLINE.

While the department has done most creditable and efficient work during the past year, and I have noticed a marked improvement in the discipline of the force, it has not as yet arrived at the high standard I believe to be attainable. The members of the force have manifested a commendable desire to conform to all rules and regulations. I am yet constrained to confess that there still remains some discordant elements traceable to a lack of discipline in the past, which seriously mar the efficiency of the force and which must be eradicated before the best results can be obtained. There are also some other and minor drawbacks to the improvement of the force, the chief being a want of numbers as before mentioned, and lack of station

houses, drill rooms, gymnasium, etc., for physical training.

By force of the very nature of the duties to be performed a police force is semi-military in its organization and modes of discipline. The first lesson to be learned is implicit obedience to order. An officer attempting to make "a law unto himself," for his particular beat and entirely independent of instructions or of the charter and ordinances, soon becomes worse than useless upon the force—he is a drawback and a stumbling-block in the way of others who are honestly striving to do their duty. Or, if an officer attempts to temporize with crime or show leniency to criminals, he not only places himself in the power of unscrupulous men and won.en, and thus paves his own way to ruin, but he compromises other and better men who are trying to do their duty conscientiously. Police officers are too apt to desire to be considered "good fellows," and thus shrink from making enemies of viola ters of the law, in hopes by that means to secure favor, a long term in office

or promotion through political favoritism. A political policeman is an unmitigated nuisance—the worst and mose dangerous type of demagogue. reasons from the false standpoint that the influence of the criminal classes -especially that demoralizing and ungovernable monster known as the liquor interest—is sufficient to control the whole social system and make his position and promotion absolutely certain. Acting upon this belief he ignores every legal requirement of his office, and before he is aware of the fact himself he becomes the sworn ally and partner of those who profit by violating the laws of the land. The officer who is "a good fellow" is liable to be a bad officer. The duties of the police are of such a character that it is absolutely impossible for a conscientious officer to pander in the smallest

degree to the wishes of the disorderly element.

Ths fireman, in response to an alarm, bravely rushes to a place of peril and bravely fights against the elements. All honor to his manly calling: but he does not war with the passions, wants and desires of vicious men and women, as do the police. When the contest of the fireman is done all classes unite in doing honor to the noble efforts of the fireman. The police force respond to the same alarm with the firemen, form a cordon around the premises so that the firemen will not be interfered with in their work, look after the property that may be removed from the burning building, force back the idle, curious crowd that always congregates, and after hours of hard labor return to their regular beats followed by abuse and curses—often, too, of reputable citizens. Again, respectable business men fail to comply with, or wilfully violate certain ordinances. It is the sworn duty of the officer to bring this good citizen into court. He discharges that duty promptly, and gets the lasting enmity of not only the respectable business man, but of all the large circle of friends of the said business man.

The public at large have but little conception of the difficult and often perplexing position in which officers are daily placed. At best, the lot of an

honest policeman is not a happy one.

Your honorable board has found it necessary in some instances in order to enforce discipline to suspend and remove some officers of the force for cause. These suspensions and removals have seemed to some good citizens to be dictated by selfish or trivial notions, because such citizens have had no just conception of all the surrounding and incidental facts and circumstances. Hence adverse criticism has followed. But it should be understood by all intelligent citizens that the board is best equipped to judge of the evidence adduced and to act upon it. In every case the accused officer is given the benefit of every doubt, and in no instance has there been suspension or removal without ample reason; and I desire to bear testimoney to your entire and perfect impartiality in every instance coming under my observation.

THE DETECTIVE FORCE.

I desire to call especial attention to the detective department during the year just closed. When I assumed control of the police, this force was reduced two (2) in number, and the office of chief detective dispensed with. The detectives retained were placed under my immediate command and supervision. Exhibit "C," page 342, shows this work in detail.

This is one of the most useful and important branches of the force, and the city has been exceedingly fortunate in securing the services of a class of men who are second to none in the country for this delicate and laborious service—men who have had long years of experience in this particular field, who are intelligent and enthusiastic in their work; and above all honest and fearless in the discharge of their duties. Crooks, criminals and tramp thieves have found this city very unhealthy as a tarrying place, and the vigorous work of this department in "spotting" the suspicious clansmen on their arrival and placing them in the workhouse for 60 or 90 days, has had a most excellent effect in deterring their friends from paying us a visit.

Your attention is called to the large amount of property recovered by the

department during the past year.

LICENSE INSPECTOR.

This division of the department has been ably and efficiently conducted by Inspector Enoch Ray, whose report accompanies this and deserves your careful consideration.

RECOMMENDATIONS.

Increase of the force.—I respectfully offer the following recommendations: First. That the force be immediately increased to two hundred and fifty (250) members. This number is conservative in comparison with other

cities of the size, importance and wealth of Minneapolis.

The number recommended above would give the city one (1) officer to each 920 inhabitants. It is a self-evident necessity that the foot patrol beats should be extended in a number of directions—especially in the northeast, northwest and south; and that some of the inside beats be reduced; also that more men be provided on post stations—i. e. at the principal crossings in the heart of the city.

Second.—Stations. That immediate steps be taken to erect two (2) police stations of modern style, one in the third precinct and one (1) in the fourth, on lots now owned by the city. At this time the city owns but one station (the Central), and that one, although but recently built, needs many improvements to make it suitable to the requirements of the department. The lot adjacent thereto, fronting on First avenue south, should be at once bought or condemned, thereby making it possible to erect a suitable building to accommodate the Municipal Court and officers connected therewith—

police head quarters, gymnasium and drill room.

In this building as well as in all other new station houses erected, provision should be made for sleeping and furnishing meals to the entire force in each precinct whenever a continuous reserve is needed. The force in the second precinct is occupying a rented basement room on the corner of Main street and Central avenue, provided with no cells or other conveniences, and entirely inadequate for the purposes required. I trust that the honorable city council will see the necessity of taking immediate steps toward purchasing or condemning suitable property and the erection of a building in this precinct. The third precinct force also occupies a rented basement under the Scandia bank containing a few wooden cells, but wholly unfitted for use if sanitary laws are to be considered of any value. The city owns a suitable corner lot in this precinct and I hope that immediate steps will be taken to build a proper building thereon.

The fourth precinct force is also domiciled in a rented basement at the corner of Plymouth and Washington avenues. This location is absolutely valueless—so much so that we have been compelled, because of defective sewerage and ventilation, to abandon the use of the sells. This necessitates the transportation of prisoners arrested in this precinct to the central

station-from one to two miles distant.

During the past year the city purchased a lot on the corner of Third street and Nineteenth avenue north for the use of the police department, and it is hoped to have a suitable building started thereon in the spring and com-

pleted as soon as possible.

The fifth precinct force occupies a small wooden building located in the rear of the engine house on Twenty-sixth street and Blaisdell avenue, which contains but two cells. While unsuitable in many particulars it is far superior to any other station in the city except the central station. I would recommend the immediate purchase of a suitable lot in this precinct, as a modern station will be required in this locality at an early day.

WORK OF THE DEPARTMENT.

(The following exhibit to show the work of the department in detail.)

I desire to say a few words with regard to some of the special features of our work during the past year.

SALOONS.

The saloon has always been a source of great trouble to those entrusted with the enforcement of municipal laws. The liquor traffic has sometimes received so little attention from city administrations in Minneapolis that to require an honest enforcement of the laws relating thereto arouses a sentiment and an opposition which has indeed made it unpleasant and which makes the work of the department more than double as great. At times in our city there has been a general disregard of the laws which require that the saloons shall be closed at midnight and remain closed during Sunday,

after such condition had been permitted to exist it was perhaps only reasonable to find those engaged in the traffic as well as many others, declaring the innovation of this administration, arbitrary, unreasonable, unjust, and a flagrant interference with what people who ought to know better are pleased to term "personal liberty." A former city council had refused to pass an ordinance which would make it possible to punish saloon-keepers for violating the law, and the state law was practically unobserved. The police had got used to this state of things. They had been overlooking the saloon. It was therefore only reasonable to expect the saloon men to be solidly arrayed against the proposition to enforce the laws so far as it applied to their business. But the desired results has been accomplished, and that too with a great deal less trouble than was at first anticipated. It is but voicing the sentiment of some of the oldest and most reliable and observing officers in the department to say that at no time during the past decade has the Sunday closing law been so thoroughly enforced as at present.

But this has not been due to the efforts of the department alone, by any means. The saloon-keepers, or at least a great majority of them are to be commended for the stand they have taken in this matter; as soon as they found that the authorities were in earnest about this matter they said they did not object to Sunday closing if we did not discriminate but oblige all to observe the law. The department has tried to enforce the law fairly and impartially and without fear or favor and that these efforts have been successful will be made apparent to any fair minded man who cares to in-

vestigate.

GAMBLING.

It has been the aim of this department to enforce the laws in regard to gambling. We think the city is more free from this vice than during the past ten years. There is no "open and notorious" gambling in Minneapolis, but there are unquestionably a number of private or semi-private poker rooms where men who are unfortunately possessed with the determination to gamble indulge this propensity. These rooms are conducted in a manner which makes it almost impossible for the law to reach them. Now and then a social organization has set apart rooms where members of a "speculative" turn of mind might enjoy themselves, as a general thing the playing is confined wholly to members of the club and is a feature of evil which seems inseparable from metropolitan notions and one which is exceedingly difficult to deal with. There is no common resort in this city where the mechanic, the clerk or the accountant is allowed to risk his own or his employer's money except the pool room which the law of the state does not interfere with.

PRIZE FIGHTING.

A year ago this was the "sport" most talked about in Minneapolis. The public fights were spoken of as "glove contests." A better name and one which would be entirely indicative of the real character of these periodical affairs would be "prize fights." The more delicate name of "glove contest" was intended for the people who never attended these exhibitions and whose publicly avowed hostility to them might be prevented by not using the

harsher but more truthful description.

These affairs were of frequent occurrence, and after having extended over a series of years, it was not at all surprising to find pugilism occupying no inconsiderable part of the public mind. In fact there existed here a pugilistic mania. Old men, young men and even boys, no where near their majority, seemed to be carried away with this queer amusement. That all this had a most pernicious effect, especially upon the young men and boys, is a truth which many of the most ardent and enthusiastic devotees of the manly art have frequently admitted. Early in the year it was decided to put a stop to these exhibitions and they have since been unknown.

STREET CAR STRIKE.

Unquestionably the hardest task during the year was the trouble incident to the great street car strike in April, and which continued thirteen (13) days. Some special features in this work will bear particular mention. The strike was inaugurated under very peculiar circumstances. These conditions were such as to make the work of the police doubly difficult. The strikers had

the sympathy of the general public. More than that, there were many of the police officers who were so heartily in sympathy with the strikers that it interfered, at least to an extent, with the prompt and decisive enforcement of the laws. Many of the officers, however, while personally of the opinion that the street car employes were justified in striking and in resorting to all peaceful means to prevent others from taking their places, had so keen and intelligent appreciation of the duties of paid guardians of the peace that they were always as particular to obey the orders of their superiors and prevent disorder and crime as they had been upon occasions where the moral and property rights of their fellows were not involved, but the generally prevalent and apparently intense feeling which citizens, and especially the masses of working people had in the contest, very naturally had its effect upon the The strikers themselves appreciated these facts, and being assured that the people and the police were with them in their struggle, they became emboldened, and resorted to methods and tactics which perhaps they would not have employed under ordinary circumstances. The sympathy which the the public showed the strikers make the situation an exceedingly delicate one and suggested that the greatest care and caution be exercised in dealing with the strikers and their friends and sympathizers who joined with them

in their demonstrations.

Everybody remembers the fever heat of excitement of the strikers and the determined stand of the company. The situation was so delicate and perilous that leading citizens who would ordinarily advise that a vigorous and aggressive stand be taken by the authorities, in this case was convinced that discretion was the better part of valor, and that the situation should be handled carefully, so long as the strikers refrained from direct acts of violence, as with this peculiarly uncertain conditions which prevailed, it would have required but very little to precipitate very serious trouble which would have perhaps left a very disgraceful page upon the industrial history of our The disorders incident to that strike were not quelled without effort. city. That they were quelled without loss of life is a fact which seems to me is greatly to the credit of our police department. It was a comparatively peaceful consummation of a very serious and earnest strike, a thing for which every honest and worthy citizen had devoutly prayed. The sympathy which was so manifest among the officers became less so when the strikers or their indiscreet friends resorted to violence. In their efforts to impressupon people the necessity of refraining from violence or even from acts which during a critical period were calculated to lead to trouble, the officers received the cooperation of the municipal judge to an extent which your honorable board can very easily second. The attitude of the municipal magistrate during that exciting period unquestionably did a great deal towards creating respect for law and order and bringing the strike to an end.

POLICE TELEGRAPH.

One of the most important and useful adjuncts to the department is the police telegraph and telephone system. Although this department has only seventeen boxes in operation, yet you will learn by reference to exhibit "E" (page 343) that the central office has received 114,379 reports—or an average of 313 per day. Of those reports 110,762 are from patrolmen and sergeants on duty, who are expected to report at stated intervals. With the limited number of stations a large proportion of the force have no direct means of communication with headquarters. There should at once be provided a sufficient number of stations conveniently located at or contiguous to the conjunction of beats that every officer on duty could report at least once every hour or oftener if necessary. This would place every section of the city in close communication with headquarters and thus facilitate co-operation among all members of the department when such co-operation was required. Such unity of action often materially assists in making important arrests with promptness and certainty, and enables the superintendent to concentrate the force, or any part of it, at a given point with the least loss of time. It also enables a patrolman in any part of the city to communicate the fact of an arrest without leaving his beat exposed, and gives immediate and accurate knowledge of the whereabouts of each and every officer on duty. fact, the system has come to be a prime necessity in the satisfactory management of an effective police force; and should without further delay, be so

extended that every quarter of the city, no matter how isolated, would have

the benefit of it and through it, of adequate police protection.

Under this head I would recommend the immediate purchase of another span of horses to be used as a relief team on the central patrol wagon. This wagon does the major portion of the work, and it would be in the line of strict economy to have a relief team that could be used in case of disability of the horses, or to give the regulars adequate rest.

POLICE RELIEF ASSOCIATION.

I would respectfully call the attention of the board to the desirability of establishing a relief association for the members of the police force of the city, and their families and dependents. The neuclus of a fund of this character is already in existence, amounting to about \$400. Such fund should be used for such deserving members of the force as were sick, injured or disabled, or in case of the death of an officer to provide for the immediate wants of those who were dependent upon his salary or income; or in the way of a pension to such members of the force as may be incapacitated for duty through injuries received while discharging their official functions. Such fund might be created without taxing the property of citizens, but placing therein all special rewards offered for the arrest of criminals or the recovery of stolen property: fees for extraordinary or extra hazardous services; money accruing from the sale of unclaimed property; fines imposed upon members of the force for dereliction of duty, and by a small monthly tax levied upon the members and officers of the force. This system is now coming into general use in other cities, and it seems to me the time has arrived for its adoption in Minneapolis.

CONCEALED WEAPONS.

I would earnestly recommend that the board place before the city council the immediate importance of enacting an ordinance to license, prohibit, regulate and control the carrying of concealed weapons, and to provide for the confiscation of the same, in accordance with the provisions of the city charter, page 53. This custom is growing more and more dangerous, and while the ordinary law-abiding citizen seldom sees the necessity of carrying deadly weapons, the criminal classes, and those holding the laws of the land in contempt, are invariably armed with deadly weapons, and often upon

the slighest provocation put them to murderous uses.

The first thing the young hoodlum or apprentice in crime provides himself with is a pistol or slung-shot; and as there is no law covering the carrying of deadly weapons except the legislative enactment, it is difficult for the municipal authorities to take prompt and effective action regarding the offense. The ordinance should provide that the superintendent of police may, upon application in writing setting forth under oath sufficient reasons, to be approved by him, issue to such person a permit in writing to carry a pistol within the limits of the city upon the payment of an annual fee of one or two or three dollars, such permit being subject to revocation at any time. The penalty for carrying, or having upon or concealed about the person at any time weapons of a deadly character without such permit should be punished by a fine of \$25 to \$100.

PRIVATE DETECTIVES.

I now approach a subject delicate to handle, and yet one that vitally affects the continued well-being of society. All history is filled with the lesson that the system of public or private espionage over the doings of citizens, their daily and hourly incomings and outgoings is vicious in its entire tendency, demoralizing to society and subversion of the ends of all good government. The growth of private detective agencies of late years in all the large centers of population in America is a parasitical disease which has fastened itself upon the vitals of our institutions and will continue to spread demoralization unless the constituted authorities control and regulate them with a strong hand.

The large and constantly increasing class—male and female—calling themselves "private detectives" which infests all large cities to-day is mainly—not invariably—composed of professional blackmailers and panderers to every crime written in the statute books of God and men. No life in the com-

munity is so pure and faultless as to be safe from the machinations of these human ghouls; no act so innocent that it may not be perverted to the vile

uses of their calling.

Under the laws as they exist it is extremely difficult to adequately guard and protect innocent people from these inhuman "wolves seeking whom they may devour," or bleed. I attempted at the last legislature to have enacted a law providing for the control and government of these so-called detective agencies. This bill passed one branch of the legislature, but was lost in the turmoil of the closing days in the other house. An effort will be made early at the next meeting of the law-makers, and it is to be hoped with better success.

No one knows as well as the legal and recognized police authorities of the large cities of the length and breadth and height and depth of this constantly augmenting evil. In Minneapolis, during the past year, good and respectable citizens, innocent of crime or the thought of crime, have been bled of hundreds of dollars simply because they feared public scandal and dreaded the revenge of characteriess adventurers should they undertake the prosecution of these vile men and women under the law. This department has "called off" a few of these people when complaint has been made, but in every instance the complainant has refused to prosecute because of public scandal.

The existing state law is not sufficient protection, and in its operation is too cumbersome to successfully prosecute under it, and it is desirable that it should be so revised and amended by the coming session of the legislature that it will be of use in suppressing this growing evil.

NEWSBOYS AND BOOTBLACKS.

The street is the preparatory department of the school of crime. The newsboys and bootblacks are often the apt and intelligent pupils of the infant class of wickedness. This army of undeveloped and infantile wrongdoers is being constantly augmented and increased. It is remarkable that in this day of refinement, enlightenment and boasted civilization, nothing further than preparatory efforts have been made to break up this breedingschool of vice, crime and villainy. Can anyone give a good and sufficient reason why newspapers should be lawked upon the streets more than dry goods or groceries? If these children are dependent upon their daily profits for bread, it would be infinitely cheaper for society in the long run, to furnish comfortable homes, wholesome food and educational facilities for them at public cost, than to give them up to the criminal teachings of the public streets. But a careful examination of the habits, manners and doings of this class will prove to any one that when there is one dollar of their earnings that goes to a good and useful purpose there are hundreds go to cultivate vile habits and vicious practices.

I do not have any hopes of the possibility of curing this plague spot upon the body social. The disease has grown chronic and the eyes of benevolence look clear over the heads of these pagan waifs—forgotten remnants in a Christian civilization—while seeking to confer spiritual blessings on un-

known and barbarous dwellers in foreign lands.

A State law for compulsory education would thin the ranks some, and a municipal ordinance giving perfect police control of these guilds of the street would help a little. But the cure, probably, lies in the very dim and distant future, when clean and well fed American citizens begin to carefully study social problems right at home.

BERTILLON SYSTEM.

The Bertillon system of identification of criminals was adopted by this department in March, 1889, and we are very much pleased with the results thus far, and as the principal police departments throughout the country adopt this system, which we learn they are doing very rapidly, the mutual benefit derived therefrom will be of incalculable value. To quote the author's words, "this system, where used, fixes the human personalities, gives to each human being an identity, an individuality, certain, durable, invariable, always recognizable and always capable of being proven.

MOUNTED PATROL.

This branch of the department deserves special mention for their very efficient services during the strike and in many ways during the past year. This force should be increased to at least twenty (20) men during the coming year.

POLICE MATRON.

The propriety, if not the necessity, for the employment of a matron at Central station to have charge of all female prisoners, was recognized by the board and we were very fortunate in securing the services of Mrs. Louisa Paine in this position, who took charge of this department last February, and we find her fully qualified to fill this difficult and often very disagreeable office.

SIDEWALK INSPECTOR.

This branch of the department has been in charge of Inspector F. De Harven, whose report accompanies this, and I would respectfully ask a careful examination of same. He has also rendered valuable and efficient aid to the city attorney in looking up and securing evidence in all damage suits arising from accidents, against the city.

CONCLUSION.

We desire to express our obligations to all the principal police departments throughout the United States and Canada for courtesies extended to us.

To the Honorable Board of Police Commissioners:

I desire to express my sincere thanks for their hearty co-operation in every thing pertaining to the increased efficiency of the department.

Respectfully submitted, W. M. BRACKETT.

Superintendent of Police.

"A."
Comparative Cost, etc., Police Departments in Cities, as follows:

Year.	PLACE.	Population.	Annual expense of police department.	No. of police.	Average cost of police per capita.	Average population to each police.
1888	Providence, Rhode Island	122.000	\$236,690	206	\$1.94	592
1888	Buffalo, New York	240,000	363,050	340	1.51	706
1888	Cincinnati, Ohio	325,000	433,130	466	1.33	697
1888	Detroit, Michigan	220,000	288,347	310	1.31	709
1888	Cleveland, Ohio	230,000	256,352	241	1.11	954
	Average of the above five cities				1.44	731
1889	Minneapolis	220,000	195,000	182	.88	1,209
	A conservative estimate of what Minne-					,
	apolis should have	230,000	263,500	250	1.15	920

"B."
Comparative Cost, etc., Minneapolis, Past Four Years.

YEAR.	Population.	Number of police.	Expense of police department.	Average cost police dept. per capita.	Average populati'n to each patrolm'n
1886.	120,000	114	\$108,233.33	\$0.90	1,052
1887.	150,000	169	170,773.63	1.13	888
1888.	190,000	169	174,489.08	0.91	1,124
1889.	220,000	182	195,000.00	0.88	1,209

"C."
Detective Department.

Months.	Amount of personal property reported stolen.	Amount of property recovered.	Number of arrests
January	\$4,445.00	\$2,655.00	44
February		1,896.00	41
March		1,000.00	21
April		1,768.00	43
May	4,510.00	2,705.00	27
June	990,00	585.00	27
July		585.00	27
August		1,055.00	10
September	1,770.00	1.062.00	23
October	2,405.00	1,443.15	. 16
November		1,087.50	25
December	1,370.00	822.00	40
Total	\$28,832.75	\$16,663.65	344

Months.	No. of prison- ers convicted.	Number of arrests for other cities.	Value of horses and carriages reported 10st and stolen, re- covered.
January February. March April. May June July. August September. October November December	30 38 14 35 22 24 7 9 8 20 20	1 1 2 1 0 2 3 0 0 0 3 3 3 3	\$4,450 10.150 8,000 6,000 5,000 7,000 4,000 4,200 5,200 5,000 5,000
Total	250	19	\$61,100

Note.—Three horses not recovered of those reported.

Detective Department-Pawnbrokers' Reports.

Months.	No. of daily	No. of pledges	No. of pledges
	reports re-	and purchases	copied and re-
	ceived.	reported.	corded.
January February March April May June July September October November December.	298	1,509	302
	251	1,299	259
	307	1,873	355
	317	2,086	417
	313	1,416	283
	331	1,574	313
	307	1,427	285
	434	1,633	326
	388	1,593	318
	250	1,602	321
	291	1,306	261
	388	1,600	320
Total	3,875	18,918	3,760

"D."

Superintendent	of	Police.	Office.
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Complaints (written) investigated	730
	3,650
Letters and telegrams acted on and recorded	2,555
Letters and telegrams sent out and recorded.	2,920
Circulars and postal cards issued.	1,460
Circulars and postals from other cities acted on and filed	3.600

"E."

Report of Signal Service and Telephone Department.

Months.	Calls from offi- cers through patrol boxes.	Calls for the patrol wagon.	Fires attended by patrol wagon.
January February	7,246 9,410	109 70	5 12 8
March	10,057 5,616	141 135	10
April	8,933	154	
June	9,442	154	9 8
July	8,765	155	9
August	9.785	179	8
September	10.168	158	8
October	10,667	189	8
November	11.374	156	7
December	9,305	135	9
Total	110.762	1,735	90

Months.	Complaints by telephone.	Calls for officers by telephone.	Dead animals reported by telephone.	Buildings found open and re- ported.
January February March April. May June July August. September October November December	53 42 50 110 145 108 142 110 93 107 104 9	32 12 22 60 40 24 26 28 17 11 37 44	14 11 14 14 16 15 40 28 29 12 6 14	13 7 9 7 0 6 5 5 1 8 4 3
Total	1,156	353	213	68

Summary of Public Service.

Police Report for Nine Months from April 1 to December 31, 1888.

ARRESTS.

	2220203	Lan. 2. 7.4	
Male. Female. Married Single. White.	291 1,282 3,533	Colored	28
	AG	ES.	
Under ten years of age	391 2,061	From forty to fifty	651 284 63
		7D 4 1	4 43 4 50

OFFENSES—STATE.

OFF	ENSE	S—STATE.	
Abduction	1	Attempt to provoke breach of peace	7
Adultery	5	Carrying concealed weapons	9
Assault	32	Assault with attempt to rape	2 1 9
Assault and battery	192	Assault with dangerous weapon	Ô
"Con men"	2	Assault with attempt to rob	3
Attempted larceny	4	Cruelty to animals	3 7 1 6 2 11
Burglary	32	Attempted burglary.	i
Bastardy	12	Disposing of mortgaged property	6
BastardyDefrauding hotel	1	Escaping from work house	9
Dealing faro	î	Destroying property	11
Embezzlement	17	Destroying property Keeping houses of ill-fame Larceny from the person	10
Forgery	14	Largeny from the person	15
Grand larceny	51	Fugitive from justice	
Highway robbery	13	Incorrigible conduct	5 7 3 1 2 4 1 2 4 8 1
Horse stealing	8	Maliciously injuring property	3
Kidnapping	1	Maliciously injuring property Moving stolen property	1
Murdar	4	Murder, suspected of	9
Murder. Perjury. Petit larceny.	1	Obtaining money under false protinge	Ã
Potit largeny	303	Obtaining money under false pret'nse Obtaining board by false pretense	1
Pana	1	Obtaining proporty by false pretense	9
Rape	1	Obtaining property by false pretense Obtaining signatures by false pret'se	4
Resisting officer	9	Douiding in houses of ill fame	9
Robbery Wife beating Threats to kill	5	Residing in houses of ill-fame	0
Threats to bill	$\tilde{3}$	Violating Sunday law	1
Pagaining stolen property	**	Violating election law	1
Receiving stolen property	4	TD - 4 - 1	000
Women in mens' apparel	1	Total	829
()1	A TATA NEW	ES-CITY.	
Abusive language	26	Careless and reckless driving.,	12
Bench warrants	1	Lewd and indecent conduct	130
Peace warrants		Charge not made	10
Disorderly conduct	612	Found in disorderly house	10
Drunkenness	2.138	Indecent exposure of the person	10
Fornication	12	Indecent assault	1
Fast driving	24	Insulting and indecent conduct	1
Gambling .	46	Insulting language	1
Vagrancy	629	Occupying rooms for purposes of	
Vagrancy Obscene literature Ran away from home	1	prostitution	15
Ran away from home	9	prostitution	53
Obstructing street	12	Keeping disorderly house	
Lewd language	5	Keeping gambling rooms	$\begin{array}{cc} \cdot & 2 \\ 1 \end{array}$
Violating bathing ordinance	4	Keeping gambling roomsViolating market ordinance	3
	3	" nuisance "	7
" billiard " " building "	36	" pedlers "	$\frac{7}{7}$
" cab and hack "	3	park	18
u dog	19	" nound "	7
" license " "	14	" sidewalk " ·	33
" express "	3	" street "	24
" fire arms "	9		5
· health	36	Visiting houses of ill-fame	98
" pawnbrokers' ordinance	1	The state of the s	
" liquor ordinance	î	Total	4,815
			,,010
Total city offenses, 3,98	b. TO	tal city and state offenses, 4,815.	
	NAT	IVITY.	
A 4 . 3*			
Australia	2	Poland	10
Austria	8	Prussia	4
Bavaria	1	Russia	31
Bohemia	29	Roumania	8
Canada	170	Scotland	46
Denmark	36	Spain	1
England	110	Sweden	548
Finland	31	Switzerland	3
France.	23	Turkey United States (white)	0 7/5
Germany	240	United States (white)	2,747
Holland,	4	United States (colored)	99
Hungary	5	Wales	1
Italy. Ireland	10	m . 1	4.045
Treland	347	Total	4,815
Norway	300		
	CCTIP	ATIONS.	
			_
Architects	. 3 2 5	Bell boys	2
Actors	2	Blacksmiths	39
Artists	5	Boarding house keepers	1
Agents	21	Billiard hall keepers	1
Auctioneers	4	Boilermakers	13
Bakers	2	Bookkeepers	26
Bankers	4 2 2 59	Bootblacks	26
Barbers		Brakemen	5
Bartenders	35	Bricklayers	20
Brewers	3	Builders	18

Butchers	51	Mechanics	23
Cabinetmakers	7	Merchants	68
Canvassers	2 2 3	Milk pedlers Milliners.	2
Capitalists	2	Milliners	
Car builders	3	Millers	30
Carriagemakers	169	Miners	55
Claimyovants	1	Molders	99
Clairvoyants	2	Musicians	ž.
Cattle dealers	ĩ	Ministers	ĭ
Chemists	. 1	News agents	2 33 2 8 1 3 12 2 4
Cigarmakers	22	Newsboys	12
Clerks	69	Nurses	2
Collectors	2	Operators	4
Commercialmen	2 3 3	Painters	78 11
Coachmen	3	Paper hangers. Pattern makers.	
Confectioners	7	Pattern makers	1
Contractors	20	Pedlers	46
Cooks	67	Plasterers	14
Coopers	32	Plumbers	21 .
Cowboys	2 2 8	Porters	6 44
Dentists	ã	Printers Private watchmen	
Doctors	2	Prostitutes	2 5
Draymen	2	Railroad men	170
Druggists	10	Rag pickers	170
Dressmakers	- 13	Real estate men	41
Editors	3	Reporters	1
Electrician. Employment agents. Engineers	1	Restaurant keepers	5 1
Employment agents	1	Roofers	1
Engineers	33	Salesmen Saloon-keepers	29
Engravers	1	Saloon-keepers	46
Errand boys. Ex-police	4	Saw-filers	5 8
Ex-police	3 4	Sailors. Scavengers.	10
Ex-detectives	69	School hove	76
Farmers Finishers	5	School boys School girls.	3
Firemen	4	Seamtresses.	10
Flour packers	2	Servants	3
Foremen	2	Second-hand dealers	3 25 25 25 27 27 20 3
Grocers	19	Shoemakers	25
Hatters	4	Showmen	2
Hackmen	27	Soldiers	-3
Harnessmakers	9	Steamfitters	5
Horsemen	10	Stone cutters	21
Horseshoers	10 . 17	Stone masons	20
Housekeepers	108	Students	i
Housework	25	Switchmen	10
House movers	3	Switchmen Tanners	2
Ice dealers	3	Tailors	51
Janitors	4	Teachers	1
Jewelers. Junk dealers.	3	Teamsters	$\begin{array}{c} 1 \\ 62 \\ 2 \end{array}$
Junk dealers	2	Theatrical people	2
Laborers	2,422	Tinsmiths	10
Laundresses	4	Trunkmakers	$\frac{1}{2}$
Lathers	3	Turners	2
Laundrymen	6	Upholsterers	5
Lawyers	4	Wagonmakers	32
Liverymen	22	Waiters Washerwomen Watchmakers	:3
Machinists	36	Watchmakers	4
Machinists Managers	1	Weavers	1
Manufacturers	9	Well diggers	4
Marble cutters	4		
Masons	4	Total	4,815
но	W DISI	POSED OF.	
Appealed	7	Dismissed and discharged	639
Bail forfeited	10	Bound over to keep the peace	5
Bench warrants.	4	Comitted to county iail	40
Escaped	î	Delivered to sheriff	1
Fined	$2,04\overline{2}$	Bound over to keep the peace. Comitted to county jail. Delivered to sheriff. Remanded to authorities abroad	11
Sentence suspended Sent to workhouse.	522	Restored to parents	2
Sent to workhouse	1,228	Sent to reform school	28
Sent to hospitalBound over to grand jury	1		4 1345
bound over to grand jury	274	Total	4.815

Miscellaneous Service.

Miscentineous Service.	
Nine Months, April 1, 1888, to January 1, 1889. Accidents reported	382 3 65 73 87 26 34 23 908 126 12 15 3
A D D TOCKEO	

Police Report for	Year I	Ending December 31, 1889.	
	ARR	ESTS.	
Male	5,643	Colored	121
Female	489	Able to read	6,129
Married.	1,855	Unable to read	3
Single	4,277	-	
White	6,011	Whole number of arrests	6,132
	AG	ES.	
Under ten years of age	15	From forty to fifty	886
From ten to twenty	585	From fifty to sixty	330
From twenty to thirty	2,330	Sixty and over	77
From thirty to forty	1,909	_	
		Total	6,132
OFF	ENSE	SSTATE.	
Abduction	3	Obtaining property by false pret'nse	3
Adultery	. 8	Obtining signatives by false pretine	1
Assault	32	Passing counterfeit money	3
Assault and battery	239	Perjury	1
Assault with intent to rob	$\frac{1}{2}$	Petit larceny	291
Attempted breach of peace	30	Possessing obscene pictures Ran away from home	1
Bigamy	1	Receiving stolen property	3
Blackmail	1	Residing in house of ill fame	
Burglary	30	Rioting	5
Burglary, attempted	10	Robbery	12 5 2
Bribery	1	Subordination of perjury	
Carrying concealed weapons	1	Seduction	$\frac{1}{3}$
Conspiracy	3	Selling tobacco to minors	
Contempt of court	10 1	Selling liquor to minors	1
Cruelty to animals	14	Selling obscene pictures Violating malitia law	1
Cutting timber	1	Violating fish law	23
Cruelty to children	. î	Disposing of and concealing mortg'd	100
Criminal libel	1	property	11
Defrauding hotel	4	Violating liquor law	1
Destroying property	17	Violating railroad law	4
Embezzlement	20	Violating estray law Violating game law	$\frac{1}{6}$
Entering house forcibly Exhibiting obscene pictures	1	Violating game law Violating dental law	1
Forgery	51	Using false weights	1
Fugitive from justice	5	Obstructing officer	î
Grand larceny	104	Non-support of family	10
Highway robbery	1	Murder	1
Held as witness	1	Mortgaging another's property	1
Horse stealing	$\frac{2}{29}$	Malicious tresspass	1
Incorrigible conduct	29 1	Men in female attire Keeping house of ill fame	150
Kidnapping		Maliciously injuring property	10
Opening U. S. mail.	i	Transcripting mydring proporty	
Obtaining money by false pretense	3	Total	1,098
OF	FENSE	es—city.	
Violating firearms ordinance	91	Careless and reckless driving	19

			OF	FENSE	5—0111.	
Violating	firearms ordin	nance		21	Careless and reckless driving	19
**	fire	6.6		12	Common prostitute	26
**	bathing	6.4		19	Charge not made	4
••	building	**		30	Disorderly conduct	840
••	cab and hack	66		2	Drunkenness	2,558
**		44		21	Fast driving	57
**	employment			2	Fornication	73

Violating express ordinance	1	Gambling	41
" pawnbrokers " health "	6	Allowing prostitutes to resort to his	
" health "	65	saloon	1
" liquor "	114	saloon	3
" license "	21	Lewd and indecent conduct	19
	17	Indocent eccept	3
" peddiers "		Indecent assault Indecent exposure of the person	
park	33	indecent exposure of the person	17
prumbing	4	Insulting and profane language Keeping disorderly house	1
DOUNG	8	Keeping disorderly house	1
" railroad "	27	Keeping assignation house	1
" sidewalk "	8	Keeping gambling rooms	$\frac{1}{2}$
" street "	61	Keeping gambling device	3
	3	Lowd language	2
" water "	9	Lewd language	
Sund y hig or	70	Obstructing street	19
Found in house of ill-fame	154	Selling liquor without license	11
Abusive language	21	Suspicious persons	5
Breaking the Sabbath	9	Vagrancy	656
Bench warrants	4		
Peace warrants	5	Total	5,034
		6,132	0,001
Total City and state offenses,		0,10%	
37 / mysrss		A 2277 WAR TWO WAR	
NATIVI	TY OF	OFFENDERS.	
Australia	3	New Brunswick	5
	3		523
Belgium		Norway	999
Bohemia	26	Nova Scotia	19
Canada	236	Poland,	13
China	1	Russia	31
Denmark	40	Roumania	4
England	136	Scotland	46
Finland	18	South America	2
	25		$\tilde{6}$
France		Spain	704
Germany	319	Sweden	104
Greece	4	Switzerland	4
Holland	8	Turkey. United States (white)	1
Hungary	1	United States (white)	3,411
Ireland	407	United States (colored)	121
Ireland	18	Wales	. 1
Mexico	9	Traces	
Newfoundland	Ť	Maka1	6.132
Newfoundland	1	Total	0,10%
0	CCUPA	ATION.	
Artists	~	T71	55
	5	Engineers	
Actors	5	Errandboys	8
Actors	5 1	Errandboys	8 18
Actors	5	Errandboys	8
Actors. Actresses. Architects.	5 1 4	Errandboys Expressmen Farmers	8 18 66
Actors Actresses Architects. Agents.	5 1 4 46	Errandboys Expressmen. Farmers Finishers	8 18 66
Actors Actresses Architects Agents Auctioneers	5 1 4 46 3	Errandboys. Expressmen. Farmers. Finishers. Firemen.	8 18 66
Actors	5 1 4 46 3 29	Errandboys Expressmen Farmers Finishers Firemen Florists	8 18 66
Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers.	5 1 4 46 3 29 63	Errandboys Expressmen Farmers Finishers Firemen Florists Foremen	8 18 66
Actors Actresses Architects Agents Auctioneers Bakers Barbers Bartenders	5 1 4 46 3 29 63 40	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers.	8 18 66
Actors Actresses Architects Agents Auctioneers Bakers Barbers Bartenders	5 1 4 46 3 29 63 40 3	Errandboys. Expressmen Farmers Finishers Firemen. Florists. Foremen Fortunetellers. Fueldealers.	8 18 66
Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Bartenders Bellboys Blacksmiths	5 1 4 46 3 29 63 40 3 55	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Fueldealers. Gamblers.	8 18 66
Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Barbers. Bartenders Bellboys Blacksmiths Boilermakers.	5 1 4 46 3 29 63 40 3	Errandboys. Expressmen Farmers Finishers Firemen. Florists. Foremen Fortunetellers. Fueldealers.	8 18 66 9 7 2 4 3 5 2 6
Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Bartenders. Bellboys Blacksmiths Boilermakers. Billposters.	5 1 4 46 3 29 63 40 3 55 28 4	Errandboys. Expressmen. Farmers. Finishers. Firenen. Florists. Foremen. Fortunetellers. Gamblers. Gamdeners. Gasfitters.	8 18 66 9 7 2 4 3 5 2 6 7
Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Bartenders. Bellboys Blacksmiths Boilermakers. Billposters.	5 1 4 46 3 29 63 40 3 55 23	Errandboys. Expressmen. Farmers. Finishers. Firenen. Florists. Foremen. Fortunetellers. Gamblers. Gamdeners. Gasfitters.	8 18 66 9 7 2 4 3 5 2 6 7
Actors Actresses Architects Agents Auctioneers Bakers Barbers Bartenders Bellboys Blacksmiths Boilermakers Billposters Bookbinders	5 1 4 46 3 29 63 40 3 55 23 4	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Fueldealers. Gamblers. Gardeners. Gasfitters Grocers.	8 18 66 9 7 2 4 3 5 2 6 7
Actors. Actresses. Actrieses. Architects. Agents. Auctioneers. Bakers. Barbers. Barbers. Bartenders Bellboys Blacksmiths Boilermakers. Billposters. Bookbinders. Bookbinders.	5 1 4 46 3 29 63 40 3 55 23 4 27	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Fueldealers. Gardeners. Gardters. Gardeners. Hackmen.	8 18 66 9 7 2 4 3 5 2 6 7 7 17
Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Barbers. Barlenders Bellboys Blacksmiths Boilermakers Billposters. Bookbinders. Bookkeepers Bookblacks	5 1 4 46 3 29 63 40 3 55 23 4 2 19 22	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Fortunetellers. Fuddealers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers.	8 18 66 9 7 2 4 4 3 5 5 2 6 7 17 12 11
Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Barbers. Bellboys Blacksmiths Bollermakers. Billposters. Bookbinders. Bookkeepers Bookblacks. Bricklayers.	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters Grocers. Hackmen. Harnessmakers.	8 18 66 9 7 2 4 4 3 5 2 6 6 7 17 11 11 8
Actors. Actresses. Architects. Agents. Auctioneers. Barkers. Barbers. Bartenders Bellboys Blacksmiths Boilermakers. Billposters. Bookbinders. Bookkeepers Bootblacks. Bricklayers. Brewers	5 1 4 46 3 29 63 40 3 55 23 4 2 19 22 29 5	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Health inspectors.	8 18 66 9 7 2 4 4 3 5 2 6 6 7 17 12 11 8 1
Actors Actors Actresses Architects Agents Auctioneers Bakers Barbers Bartenders Bellboys Blacksmiths Boilermakers Blilposters Bookbinders Bookkeepers Bootblacks Bricklayers Brewers Brieklayers Brewers Builders	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29 5 11	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotelkeepers.	8 18 66 9 7 2 4 4 3 5 2 6 6 7 17 12 11 8 1
Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Bartenders. Bellboys Blacksmiths Boilermakers. Billposters. Bookbinders. Bookbeepers Bootblacks Bricklayers. Brewers Builders. Builders. Brewers Builders. Brewers Builders. Brewers Builders. Butchers.	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29 5 11 60	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Fueldealers. Gamblers. Gardeners. Gasfitters Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners.	8 18669724355267771121 181141
Actors Actresses Architects Agents Auctioneers Barkers Barbers Bartenders Bellboys Blacksmiths Boilermakers Billposters Bookbinders Bookkeepers Bootblacks Bricklayers Brewers Bullders Buthers Buthers Buthers Buthers Buthers Cabinetmakers	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29 5 11	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gardeners. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housekeepers.	8 18 66 9 7 2 4 3 5 5 2 6 7 17 12 11 14 1 175
Actors. Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Barbers. Bellboys Blacksmiths Bollermakers. Billposters. Bookbinders. Bookkeepers. Bookkeepers. Bricklayers. Brewers Brieklayers. Builders. Butchers. Cabinetmakers. Capitalists.	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29 5 11 60	Errandboys. Expressmen. Farmers. Finishers. Finemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters Grocers. Hackmen. Harnessmakers Horsemen. Health inspectors Hotelkeepers. Housekeepers. Housekeepers.	8 18669724355267771121 181141
Actors. Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Barbers. Bellboys Blacksmiths Bollermakers. Billposters. Bookbinders. Bookkeepers. Bookkeepers. Bricklayers. Brewers Brieklayers. Builders. Butchers. Cabinetmakers. Capitalists.	5 1 4 46 3 29 63 40 3 55 23 4 22 29 5 11 60 10 10 10 10 10 10 10 10 10 1	Errandboys. Expressmen. Farmers. Finishers. Finemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters Grocers. Hackmen. Harnessmakers Horsemen. Health inspectors Hotelkeepers. Housekeepers. Housekeepers.	8 18 66 9 7 2 4 3 5 5 2 6 7 17 12 11 14 1 175
Actors. Actresses. Architects. Argents. Auctioneers. Barkers. Barbers. Bartenders Bellboys Blacksmiths Boilermakers. Billposters. Bookbinders. Bookkeepers Bookblacks Bricklayers. Brewers Butthers. Capitalists Cardrivers.	5 4 46 3 29 63 40 3 55 23 4 2 29 5 11 60 10 5 4	Errandboys. Expressmen. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsenen. Health inspectors. Hotel runners. Housekeepers. Housework. Housework. Housework.	8 18 66 9 7 2 4 3 5 5 2 6 7 11 12 11 14 1 175
Actors Actorsses Architects Argents Auctioneers Barbers Barbers Bartenders Bellboys Blacksmiths Boilermakers Blilposters Bookbinders Bookbinders Bookbinders Bootblacks Bricklayers Bricklayers Brewers Builders Butchers Capitalists Cardrivers Carriage makers	5 4 46 3 29 63 40 3 55 23 4 29 22 29 5 11 60 10 10 10 10 10 10 10 10 10 1	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors Hotel runners. Housework. Houseworks. Houseworks.	8 18 66 9 7 2 4 3 5 5 2 6 7 11 12 11 14 1 175
Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Bartenders Bellboys Blacksmiths Boilermakers. Billposters. Bookbinders. Bookbeepers Bookbinders. Bookbeepers Bothlacks. Bricklayers. Brewers Builders Butchers. Cabinetnakers. Capitalists Cardrivers. Cardardrivers. Carpenters.	5 4 46 3 29 63 40 3 55 23 4 29 5 11 60 10 5 4 3 170	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Fueldealers. Gamblers. Gardeners. Gasfitter. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors Hotelkeepers. Housekeepers. Housekeepers. Housework. Housemovers. Icedealers. Janitors.	8 18 66 9 7 2 4 4 3 5 2 6 7 17 12 11 8 1 14 1 1 175 180 4 1 8
Actors Actresses Architects Agents Auctioneers Bakers Barbers Barbers Balles Bartenders Balles Balles Bolloys Blacksmiths Boilemakers Billposters Bookbinders Bookbinders Bookkeepers Bookkeepers Bootblacks Bricklayers Brewers Brewers Butlders Butlders Capitalists Cardrivers Cardrivers Cardrivers Cardrivers Cardrivers Carpenters Cattledealers Cattledealers Cattledealers	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29 5 11 60 10 5 4 3 17 17 18 19 19 19 19 19 19 19 19 19 19	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housekeepers. Housework. Housework. Housework. Housework. Janitors. Laborers. Laborers. Laborers. Laborers. Laborers.	8 18 66 9 7 2 4 4 3 5 5 2 6 7 7 12 11 8 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Actors Actors Actorsses Architects Agents Auctioneers Bakers Barbers Barbers Bellboys Blacksmiths Boilermakers Billposters Bookbinders Bookkeepers Bookkeepers Bookkayers Bricklayers Brewers Builders Builders Cabinetmakers Capitalists Cardrivers Carriage makers Carpenters Cattledealers Cigarmakers Cattledealers Cigarmakers Cigarmakers Cattledealers Cigarmakers Cigarmakers Cigarmakers	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29 51 60 10 10 5 4 5 10 10 10 10 10 10 10 10 10 10	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Fueldealers. Gamblers. Gardeners. Gasfitters Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors Hotel runners. Housekeepers. Housework. Housemovers. Leedealers. Janitors. Laborers. Laborers. Laborers. Laborers. Laborers. Laborers. Laborers. Laborers.	8 18 66 97 22 4 3 5 2 66 77 12 11 1 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Actors Actresses Architects Agents Auctioneers Bakers Barbers Barbers Balles Bartenders Balles Balloys Blacksmiths Boilemakers Billposters Bookbinders Bookbinders Bookkeepers Bookkeepers Bootblacks Bricklayers Brewers Brewers Butchers Capitalists Cardrivers Cardrivers Cardrivers Cardrivers Carpenters Cattledealers Cigarmakers Cigrafs	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29 5 11 60 10 5 4 3 17 17 18 19 19 19 19 19 19 19 19 19 19	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housekeepers. Housework. Housework. Housework. Janitors. Laborers. Laundresses.	8 18 66 97 22 4 3 5 5 2 6 6 77 12 11 14 1 175 180 4 1 8 2,648 9 3
Actors Actresses Architects Argents Auctioneers Barkers Barbers Bartenders Bellboys Blacksmiths Boilermakers Blilposters Bookbinders Bookbinders Bookkeepers Bookbinders Bricklayers Bricklayers Bricklayers Bricklayers Bricklayers Capitalists Capitalists Cardrivers Carriage makers Carpenters Cattledealers Cigarmakers Cigarmakers Clerks Commercial travelers	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29 51 60 10 10 5 4 5 10 10 10 10 10 10 10 10 10 10	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housekeepers. Housework. Housework. Housework. Janitors. Laborers. Laundresses.	8 18 66 97 22 4 3 5 2 66 7 17 12 11 8 1 1 4 1 1 175 180 4 1 8 8 2 648 9 3 3 3 3 2
Actors Actresses Architects Agents Auctioneers Barkers Barbers Barbers Bartenders Bellboys Blacksmiths Boilermakers Billposters Bookbinders Bookbeepers Bookkeepers Bookbeepers Bookhinders Brieklayers Brewers Buithers Capitalists Capitalists Cardiders Carriage makers Carriage makers Cargenters Cattledealers Cigarmakers Cligarmakers Clerks Commercial travelers Commercial travelers Commission merchant	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29 51 60 10 10 5 4 5 10 10 10 10 10 10 10 10 10 10	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel keepers. Housekeepers. Housework. Housework. Housework. Laundresses. Laundresses. Laundresses. Laundresses. Laundresses. Laundresses. Laundrymen. Lawyers. Liverymen.	8 18 66 97 24 4 3 5 2 6 6 7 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Actors Actresses Architects Agents Auctioneers Barkers Barbers Barbers Bartenders Bellboys Blacksmiths Boilermakers Billposters Bookbinders Bookbeepers Bookkeepers Bookbeepers Bookhinders Brieklayers Brewers Buithers Capitalists Capitalists Cardiders Carriage makers Carriage makers Cargenters Cattledealers Cigarmakers Cligarmakers Clerks Commercial travelers Commercial travelers Commission merchant	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29 51 60 10 10 5 4 5 10 10 10 10 10 10 10 10 10 10	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel keepers. Housekeepers. Housework. Housework. Housework. Laundresses. Laundresses. Laundresses. Laundresses. Laundresses. Laundresses. Laundrymen. Lawyers. Liverymen.	8 18 66 97 22 4 3 5 2 66 7 17 12 11 8 1 1 4 1 1 175 180 4 1 8 8 2 648 9 3 3 3 3 2
Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Barbers. Bartenders Bellboys Blacksmiths Boilermakers. Billposters Bookbinders. Bookbinders. Bookkeepers Bookkeepers Butlacks. Bricklayers. Brewers Builders Butchers. Capitalists Cardrivers. Carriage makers. Carpenters. Cattledealers Cigarmakers Clerks. Commercial travelers Commission merchant. Coachmen.	5 1 4 46 3 29 63 40 3 55 23 4 2 19 22 29 5 11 60 10 5 4 3 17 17 17 17 17 17 17 17 17 17	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housekeepers. Housework. Housework. Housework. Laborers. Laborers. Laborers. Laundresses. Laundreymen. Lawyers. Liverymen. Lumbermen.	8 18 66 97 24 4 3 5 2 6 6 7 177 111 1 8 1 1 14 1 175 180 4 1 1 8 2 6 4 8 9 3 3 2 9 4 7 1
Actors Actresses Architects Argents Auctioneers Barkers Barbers Bartenders Bartenders Ballobys Blacksmiths Bollows Bollows Bookbinders Cabinders Bricklayers Brewers Builders Builders Capitalists Cardiders Cardiders Cardiders Cardidealers Cigarmakers Carpenters Cattledealers Cigarmakers Clerks Commercial travelers Commercial travelers Commission merchant Coachmen Conductors	5 1 4 46 3 29 63 40 3 55 23 4 2 29 5 11 60 10 5 4 3 17 17 2 23 141 7 4 7 1	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Fueldealers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housekeepers. Housekeepers. Housework. Laundresses. Laundrymen. Laundrymen. Lawyers. Liverymen. Lumbermen.	88 166 97 24 43 5 22 6 7 17 2 11 8 1 4 1 175 180 4 1 8 2,648 9 3 2 9 2 4 4 5
Actors. Actresses. Architects. Agents. Auctioneers. Bakers. Barbers. Barbers. Bartenders Bellboys Blacksmiths Boilermakers. Billposters Bookbinders. Bookbinders. Bookkeepers Bookkeepers Butlders. Butchers. Builders. Butchers. Capitalists. Cardrivers. Carriage makers. Carpenters. Cattedealers. Cigarmakers. Clerks. Commercial travelers. Commercial travelers. Commission merchant. Coachmen. Condectioners.	5 1 4 46 3 3 63 40 3 55 23 4 2 2 29 5 11 60 10 10 10 10 10 10 10 10 10 1	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors Hotel keepers. Housework. Housework. Housework. Janitors. Laborers. Laundresses. Laundresses. Laundreymen. Lawyers. Liverymen. Lumbermen. Machinists Manufacturers.	8 186 97 24 43 55 26 67 177 111 18 1 144 1 175 180 4 1 1 8 2,648 9 3 32 9 477 45 1
Actors Actors Actresses Architects Agents Auctioneers Barkers Barbers Bartenders Bellboys Blacksmiths Boilermakers Blilposters Bookbinders Bookbinders Bookbinders Bookbinders Bootblacks. Bricklayers Bricklayers Bricklayers Bricklayers Bricklayers Bricklayers Capitalists Capitalists Carpitalists Carriage makers Cacarmakers Commission merchant Condenten Condectioners Confectioners Contractors	5 4 46 3 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 5 6 6 6 6 6 6 6 6 6 7 7 7 8 7 8 7 8 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	Errandboys. Expressmen. Farmers. Finishers. Firenen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. House work. Housemovers. Leedealers. Janitors Laborers. Laundrymen. Lawyers. Liverymen. Lumbermen. Machinists. Manufacturers. Mailcarrier	88 166 97 2 4 4 3 5 2 6 6 7 112 8 1 4 4 1 175 180 4 4 1 8 8 9 9 47 5 4 1 2 6 4 8 9 4 7 5 1 2 6 4 8 9 7 5 1 2 6 4 8 9 7 5 1 2 6 6 4 8 9 7 5 1 2 6 6 4 8 9 7 5 1 2 6 6 4 8 9 7 5
Actors Actresses Architects Argents Auctioneers Barbers Barbers Barbers Bartenders Bellboys Blacksmiths Boilermakers Billposters Bookbinders Bookbeepers Bookbeepers Bookbeepers Bookbeepers Bootblacks Bricklayers Brewers Buttehers Cabinetmakers Capitalists Cardrivers Cardrivers Carriage makers Carpenters Cattledealers Cigarmakers Clerks Commercial travelers Commercial travelers Commercial travelers Commercial travelers Confectioners Confectioners Confractors Coopers	5 1 4 6 3 29 6 3 40 3 55 23 4 2 29 5 11 60 10 5 4 3 70 2 2 23 141 7 4 7 1 9 8 50	Errandboys. Expressmen. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors Hotel runners. Housework. Housework. Housework. Janitors. Laborers. Laundresses. Laundresses. Laundrymen. Lawyers. Liverymen. Lumbermen. Machinists. Manufacturers. Mailcarrier. Marblecutters.	88 166 97 2 4 4 3 5 2 6 6 7 112 8 1 4 4 1 175 180 4 4 1 8 8 9 9 47 5 4 1 2 6 4 8 9 4 7 5 1 2 6 4 8 9 7 5 1 2 6 4 8 9 7 5 1 2 6 6 4 8 9 7 5 1 2 6 6 4 8 9 7 5 1 2 6 6 4 8 9 7 5
Actors Actresses Architects Argents Auctioneers Bakers Barbers Barbers Bartenders Bellboys Blacksmiths Boilermakers Billposters Bookbinders Bookkinders Bookkeepers Bookkeepers Brewers Bricklayers Brewers Bricklayers Brewers Capitalists Capitalists Cardrivers Cardrivers Cardrivers Carpenters Cattledealers Cigarmakers Clerks Commercial travelers Commercial travelers Conductors Confectioners Confectioners Confectioners Confectioners Coopers Coopers.	5 4 46 3 29 63 40 3 55 23 4 2 19 22 29 5 11 60 10 5 4 3 17 17 18 18 19 19 19 19 19 19 19 19 19 19	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housework. Housework. Housework. Laborers. Laborers. Laundresses. Laundrymen. Lawyers. Liverymen. Lumbernen. Machinists. Manufacturers. Mailearrier Marblecutters Masons.	88 166 97 2 4 4 3 5 2 6 6 7 112 8 1 4 4 1 175 180 4 4 1 8 8 9 9 47 5 4 1 2 6 4 8 9 4 7 5 1 2 6 4 8 9 7 5 1 2 6 4 8 9 7 5 1 2 6 6 4 8 9 7 5 1 2 6 6 4 8 9 7 5 1 2 6 6 4 8 9 7 5
Actors Actresses Architects Argents Auctioneers Barkers Barbers Barbers Bartenders Bellboys Blacksmiths Boilermakers Billposters Bookbinders Bookbeepers Bookbeepers Bookhinders Capitalists Bricklayers Brewers Builders Capitalists Carpitalists Cardiage makers Carriage makers Carriage makers Carpenters Cattledealers Cigarmakers Cligarmakers Cligarmakers Commercial travelers Commercial travelers Commercial travelers Conductors Confectioners Confectioners Contractors Coopers Coopers Cooks Doctors Doctors	5 1 4 46 3 29 63 40 3 55 23 4 2 29 5 110 60 5 4 3 70 2 23 141 7 4 7 1 9 8 50 96 96 7	Errandboys. Expressmen. Expressmen. Farmers. Finishers. Firenen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housekeepers. Housework. Housework. Housework. Laundresses. Laundresses. Laundresses. Laundresses. Laundrymen. Lawyers. Liverymen. Lumbermen. Machinists. Manufacturers. Mailearrier. Marblecutters. Masons Mechanics.	88 166 97 24 43 5 2 6 6 7 112 8 1 4 4 1 175 180 4 4 1 8 8 9 9 47 5 4 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 47 5 1 2 6 48 9 1 2 6
Actors Actresses Architects Argents Auctioneers Bakers Barbers Barbers Bartenders Bellboys Blacksmiths Boilemakers Billposters Bookbinders Bookbinders Bookbinders Bookbinders Bookbinders Bookleepers Bookleepers Boothinders Boothinders Boothinders Boothinders Boothinders Boothinders Boothinders Captalists Capitalists Cardiage makers Carriage makers Carriage makers Carpenters Carpenters Commercial travelers Commercial travelers Commission merchant Coachmen Conductors Confectioners Confractors Coopers Coopers Coopers Cooks Doctors Druggists	5 1 4 4 6 3 29 6 6 6 3 4 2 2 2 9 5 1 1 6 6 1 6 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 6 1 8 1 8 8 1 8 1 8 1 8 1 8 8 1 8 1 8 8 8 8 8 8 8 8 8 8 8 8 8	Errandboys. Expressmen. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housework. Housework. Housework. Laborers. Laborers. Laborers. Laundresses. Laundrymen. Lawyers. Liverymen. Lumbermen. Machinists. Manufacturers. Mailcarrier. Marblecutters. Marblecutters. Masons. Mechanics. Merchants.	88 166 97 24 43 5 2 6 6 7 171 11 8 1 14 1 175 180 4 1 1 8 1 2 6 4 8 9 3 3 2 9 4 7 4 5 1 2 2 2 0 4 3 5 9
Actors Actresses Architects Argents Auctioneers Barkers Barbers Bartenders Bartenders Ballobys Blacksmiths Boilermakers Billposters Bookkeepers Bookbinders Bookkeepers Bookbeepers Bootblacks Bricklayers Brewers Builders Capitalists Carpatalists Cardivers Carriage makers Carpenters Cattledealers Cigarmakers Clerks Commercial travelers Commercial travelers Condectioners Confectioners Confectioners Contractors Coopers Coopers Coopers Coopers Coopers Druggists Druggists Druymen	5 1 4 46 3 29 63 40 3 55 23 4 2 29 5 110 60 5 4 3 70 2 23 141 7 4 7 1 9 8 50 96 96 7	Errandboys. Expressmen. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housework. Housework. Housework. Laborers. Laborers. Laborers. Laundresses. Laundrymen. Lawyers. Liverymen. Lumbermen. Machinists. Manufacturers. Mailcarrier. Marblecutters. Marblecutters. Masons. Mechanics. Merchants.	88 166 97 24 43 5 2 6 6 7 171 11 8 1 14 1 175 180 4 1 1 8 1 2 6 4 8 9 3 3 2 9 4 7 4 5 1 2 2 2 0 4 3 5 9
Actors Actresses Architects Argents Auctioneers Barkers Barbers Bartenders Bartenders Ballobys Blacksmiths Boilermakers Billposters Bookkeepers Bookbinders Bookkeepers Bookbeepers Bootblacks Bricklayers Brewers Builders Capitalists Carpatalists Cardivers Carriage makers Carpenters Cattledealers Cigarmakers Clerks Commercial travelers Commercial travelers Condectioners Confectioners Confectioners Contractors Coopers Coopers Coopers Coopers Coopers Druggists Druggists Druymen	5 4 46 329 63 55 22 19 22 29 51 60 10 54 3 170 23 141 7 4 7 1 9 6 1 9 6 9 1 1 1 1 1 1 1 1 1 1 1 1 1	Errandboys. Expressmen. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housework. Housework. Housework. Laborers. Laborers. Laborers. Laundresses. Laundrymen. Lawyers. Liverymen. Lumbermen. Machinists. Manufacturers. Mailcarrier. Marblecutters. Marblecutters. Masons. Mechanics. Merchants.	88 166 97 24 43 5 2 6 7 17 111 8 1 44 1 175 0 4 4 1 8 1 8 4 4 1 175 0 8 4 4 5 1 2 2 2 0 4 4 5 1 7 2 2 2 0 3 4 9 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Actors Actorsses Architects Argents Auctioneers Barkers Barbers Bartenders Balloys Balcksmiths Boilemakers Billposters Bookbinders Bookbinders Bookbeepers Bookkeepers Boothlacks Bricklayers Brewers Buiders Buiders Capitalists Carpinetras Carriage makers Carriage makers Carpenters Cattledealers Clerks Commercial travelers Commercial travelers Conductors Confectioners Confectioners Confractors Coopers	5 4 46 329 63 55 22 19 22 29 51 60 10 54 3 170 23 141 7 4 7 1 9 6 1 9 6 9 1 1 1 1 1 1 1 1 1 1 1 1 1	Errandboys. Expressmen. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors Hotel runners. Housework. Housework. Housework. Janitors. Laborers. Laundresses. Laundresses. Laundresses. Laundrymen. Lawyers. Liverymen. Lumbermen. Machinists. Manufacturers. Mailcarrier Marblecutters. Masons. Mechanics. Mechanics. Mechanics. Merchants. Mediuns. Mikpeddiers.	88 166 97 24 43 5 2 6 7 17 111 8 1 44 1 175 0 4 4 1 8 1 8 4 4 1 1 8 1 8 1 8 1 8 1 8 1
Actors Actorsses Architects Argents Auctioneers Barkers Barbers Bartenders Balloys Balcksmiths Boilemakers Billposters Bookbinders Bookbinders Bookbeepers Bookkeepers Boothlacks Bricklayers Brewers Buiders Buiders Capitalists Carpinetras Carriage makers Carriage makers Carpenters Cattledealers Clerks Commercial travelers Commercial travelers Conductors Confectioners Confectioners Confractors Coopers	5 4 46 329 63 55 22 19 22 29 51 60 10 54 3 170 23 141 7 4 7 1 9 6 1 9 6 9 1 1 1 1 1 1 1 1 1 1 1 1 1	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housework. Housework. Housework. Laborers. Laborers. Laundresses. Laundresses. Laundresses. Laundresses. Liverymen. Lumbermen. Machinists. Manufacturers. Masons. Mechanics. Mechanics. Mechanics. Mediums. Milkpeddiers. Millers.	88 166 97 24 43 5 2 6 7 17 111 8 1 44 1 175 0 4 4 1 8 1 8 4 4 1 1 8 1 8 1 8 1 8 1 8 1
Actors Actresses Architects Argents Auctioneers Barkers Barbers Barbers Bartenders Bellboys Blacksmiths Boilermakers Billposters Bookbinders Bookbeepers Bookbeepers Bookbeepers Bookbeepers Bookbeepers Bookheepers Bookhinders Bookhinders Bookhinders Bookhinders Bookhinders Bookhinders Bookhinders Bookhinders Brieklayers Brewers Builders Cabinetmakers Capitalists Carpitalists Cardidealers Carriage makers Carpenters Carpenters Carpenters Commercial travelers Commercial travelers Commercial travelers Confectioners Confectioners Confectioners Confectioners Coopers Coopers Cooks Doctors Draymen Draymen Dressmakers Editors Ex-detectives	5 1 4 6 3 29 6 3 4 0 3 5 5 2 3 4 2 2 2 9 5 11 6 10 5 4 3 7 0 2 2 3 14 1 7 4 7 1 9 8 4 0 9 6 7 1 2 12 2 14 1 7 4 7 1 9 8 5 10 10 10 10 10 10 10 10 10 10 10 10 10	Errandboys. Expressmen. Expressmen. Farmers. Finishers. Firenen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers Horsemen. Health inspectors Hotelkeepers. Housekeepers. Housework. Housework. Housework. Laborers. Laundresses. Laundresses. Laundresses. Laundresses. Laundresses. Laundresses. Laundrymen. Lawyers. Liverymen. Lumbermen. Machinists Manufacturers. Mailcarrier Marblecutters Masons Mechanics. Merchanics. Merchanics. Merchanics. Mediums Milkpeddiers. Millers. Millers. Millers. Milisters.	88 166 97 24 43 5 2 6 7 17 111 8 1 44 1 175 0 4 4 1 8 1 8 4 4 1 1 8 1 8 1 8 1 8 1 8 1
Actors Actorsses Architects Argents Auctioneers Barkers Barbers Bartenders Balloys Balcksmiths Boilemakers Billposters Bookbinders Bookbinders Bookbeepers Bookkeepers Boothlacks Bricklayers Brewers Buiders Buiders Capitalists Carpinetras Carriage makers Carriage makers Carpenters Cattledealers Clerks Commercial travelers Commercial travelers Conductors Confectioners Confectioners Confractors Coopers	5 4 46 329 63 55 22 19 22 29 51 60 10 54 3 170 23 141 7 4 7 1 9 6 1 9 6 9 1 1 1 1 1 1 1 1 1 1 1 1 1	Errandboys. Expressmen. Farmers. Finishers. Firemen. Florists. Foremen. Fortunetellers. Gamblers. Gamblers. Gardeners. Gasfitters. Grocers. Hackmen. Harnessmakers. Horsemen. Health inspectors. Hotel runners. Housework. Housework. Housework. Laborers. Laborers. Laundresses. Laundresses. Laundresses. Laundresses. Liverymen. Lumbermen. Machinists. Manufacturers. Masons. Mechanics. Mechanics. Mechanics. Mediums. Milkpeddiers. Millers.	88 166 97 24 43 5 2 6 6 7 171 11 8 1 14 1 175 180 4 1 1 8 1 2 6 4 8 9 3 3 2 9 4 7 4 5 1 2 2 2 0 4 3 5 9

Miners. Newsagents. Newsboys Nurses. Operators Painters. Paperhangers. Pawnbrokers. Pedlers Plastereres. Plumbers Porters Printers Prostitutes Railroad men Real estate men Reporters Restaurent keepers Roofers. Salesmen Saloonkeepers Sawyers Sawyers Scalers. Scavengers School boys School girls.	5 2 2 2 3 5 4 4 114 15 2 2 5 16 5 7 3 3 0 4 3 0 8 7 3 3 2 3 2 5 5 2 8 2 2 2 2 2 5 5 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	Socialists Seamstresses. Servants. Secondhand dealers Shoemakers. Shoemakers. Skatters. Soldiers Steamfitters. Stonemasons Students. Tanners. Tailors. Teachers. Treachers. Teamsters Tinsmiths. Undertakers Veterinary surgeons Waiters Washerwomen Watchmen Watchmakers Weavers Welldiggers.	1 30 6 4 48 27 9 19 18 3 7 57 4 105 19 1 2 7 1 7 1 9 9 3 3 7 7 1 9 1 9 1 9 1 7 1 7 1 7 1 7 1 7 1 7
110		POSED OF.	
Bail forfeited. Bound over to grand jury. Bench warrants. Bound over to keep peace. Taken to higher court. Committed to county jail. United States commissioner Held in lockup Fined in municipal court.	22 254 1 1 12 18 3 1 2,160	Remanded to authorities abroad	2,015 5 807 50 1 778 6,132

Miscellaneous Service.

January 1st. 1889, to January 1st. 1890,

Stortweer g 100,	Acres 6	, o corone g 200, 2000;	
Accidents reported	107	Meals furnished prisoners and lodgers	4,528
Buildings secured, being found open.	116	Nuisances and dead animals reported	886
Burglars frustrated	19	Packages stolen; property recovered	9
Dead bodies taken to morgue	43	Runaway horses overtaken and stopd	59
Defective sidewalks reported	399	Sick and injured persons taken home	50
Dangerous places reported	12	Sick and injured persons t'kn to hsp'l	93
Destitute persons cared for	33	Sick and injured persons taken to sta-	
Disturbances suppressed	45	tion and cared for	40
False alarms	55	Stray teams cared for	60
Fire alarms given	261	Street lamps reported broken	6
Fires attended	63	Street lamps reported not lighted	1,718
Insane persons cared for	84	Stray horses taken up	506
Intoxicated persons assisted home	8	Suicides reported	12
Lodgers accommodated	7,955	Violation of building ordinance rep'd	5
Lost children taken to parents	325	Stray mule	1
Lost children taken to station	140	Stray cows	11
		-	

W. M. Brackett, Esq., Superintendent of Police:

SIR—1 herewith submit my report for the nine months ending December 31, 1888, together with the annual report for the year ending December 31, 1889, with tabulated statements, etc.

For the year 1888 there were two hundred and forty-five saloon licenses issued (245), making a revenue of two hundred and forty-five thousand (245,000) dollars.

There were eight hundred sixty-six (866) general licenses, with a revenue of \$15,845.

Total revenue from all licenses, \$260,845.

There were twenty-seven complaints against persons selling liquor without license, which were disposed of by the district court after indictment by the grand jury.

During the year there was \$163.55 used by police officers in securing evi-

dence against persons selling liquor without license.

For the year ending December 31, 1889, show a remarkable difference from

previous years in the revenue and disposing of the liquor violations, which is due to an ordinance passed by the city council (which I endeavored to have at the time of the high license law coming into effect July 1, 1887, but was unable to get such an ordinance through the city council, so I was compelled to depend on the district court, which proved very unsatisfactory owing to so much delay in coming to trial) during the early part of the year giving the municipal court jurisdiction to try and dispose of all such violations; also to the discipline and efficiency the police department has been subjected to during the last year passed and the quick and rigid penalties imposed by the municipal court, which has been the means of reducing such violations to a minimum never before attained.

For the year 1889-90 there were two hundred and forty-nine (249) saloon

licenses issued with a revenue of \$249,000.

There were eight hundred and thirty-six (836) general licenses issued up to December 31, 1889, with a revenue of \$17,170 47.

Total number of all licenses, ten hundred eighty-five (1085).

Total revenue from all licenses, \$266,170.47.

The following tables show the number of violations of various laws and ordinances:

TATILLE TO CO.		
Selling liquor Selling liquor	without license	17 94 3
Violations of	express and hack ordinanceemployment ordinance.	11. 2
	pedlers ordinance	4
Total		135
	mber violating the liquor laws and ordinances there w	
Out of the nur Held to grand	mber violating the liquor laws and ordinances there w	ere:
Out of the nur Held to grand Fined in muni Dismissed Sent to workh	nber violating the liquor laws and ordinances there w jury	ere: 10 60 38
Out of the nur Held to grand Fined in muni Dismissed Sent to workh	mber violating the liquor laws and ordinances there w	ere:

There were \$3,051.35 fines collected in the municipal court for violations of the license ordinance, of which \$2,720 were for selling liquor on Sunday.

Note.—Fortune tellers ordinance declared unconstitutional by the muni-

cipal court.

During the year there was used by police officers and others in securing evidence against liquor violations, \$327.40, (said amount includes all special

detective duty in looking up various violations).

For the past few years there has been considerable trouble in licensing wagon pedlers, so I caused large tin numbers with the words "Wagon Pedler" and number of their license to be painted and fastened on their wagons, which overcome all previous trouble. I also had an application to the city comptroller, the ordinance regulating the charges of hackmen, etc., to be printed in pamphlet form and to be placed in all licensed backs with name of license and number of license; also a small metallic badge for each driver of hack and cab to be worn while acting as such driver.

I would also recommend, in view of the recent decision of the supreme court, an ordinance specifically defining what constitutes a public drayman or expressman, as the present ordinance is so indefinite as to make it impossible to tell who shall or who shall not pay a license.

In conclusion I would say there never were in the history of the city as little violations of selling liquor without a license (or "blind pigs") as there have been the last year or at the present time.

Very respectfully. ENOCH RAY, License Inspector. MINNEAPOLIS, MINN., January 14, 1890.

W. M. Brackett, Superintendent of Police:

Sir:-I hereby present to you a resume of my work as street and sidewalk inspector and as special detective for the city attorney for the year 1889.

As sidewalk inspector I have reported sixteen hundred (1,600) defective sidewalks and had the same repaired by the street commissioners of the different wards of the city.

The amount of lumber used to make the repairs was one hundred and

thirty-two thousand feet (132,000) amounting to about \$1,900.

The repairs to stone sidewalks amounted to about \$500.

I have enforced faithfully all street ordinances and brought all violations before the court. I made the following arrests:

	olati																									
V i	olati	ons	sid	ew	alk	0	rd	in	a	110	99	S.	 	 	٠	 ٠.	 	 	 		 	 	 ٠.	 		
16	avin	gho	1180	ur	hit	te)	16,6	1.								 	 	 	 		 	 	 	 		
13	st di reen	rivin	1g											 		 	 	 	 		 	 	 	 		
a	reen	y												 		 	 	 	 	٠.	 	 	 ٠.	 	 	
i	sord	erly											 	 			 		 		 	 		 	 	
S	saul	tan	d ba	att	ery	7							 	 		 			 		 	 	 	 	 	 ٠.
ľ	unke	enne	155.										 	 		 					 	 	 	 	 	
1	olati	ion l	heal	lth	or	dir	la	ne	ee.				 			 	 	 	 		 	 	 	 	 	

I have assisted on several occasions, officers on their beats when in need of such assistance. I have looked after all complaints made to me by night officers, reports about violations of ordinances by parties they could not reach; also after numerous complaints made by private parties against neighbors and others. In the legal work I have investigated and adjusted numerous claims against the city. I have also secured evidence in the damage suits against the city in the following cases, viz:

E. Hall vs. City Cyrus Hall vs. City. Cyrus Hall vs. City.
E. M. Gallagher vs. City.
E. Kent vs. City.
E. Kent vs. City.
Stephen Harden vs. City.
J. T. Larson vs. City.
St. Anthony Water Power Co. vs City.
St. P. M. & M. R. R. Co., Como avenue crossing vs. City.
St. P., M. & M. R. R. Co., 22d avenue NE crossing vs. City.
St. P., M. & M. R. R. Co., 19th avenue NE crossing vs. City.
David Keyes vs. City.
Languages assisted the building in J. Berquiest vs. City.
J. Fitzgibbons vs. City.
Alice Barry vs. City.
T. W. Shonewalder vs. City.
Harry Tuttle vs. City.
Harry Sullivan vs. City.
E. L. Larson vs. City.
Nicholas Henker vs. City.
M. J. Hemperly vs. City. M. J. Hemperly vs. City.
Mary Collins vs. City.
Maria Olson vs. City.
Peter Peterson vs. City.
Levy Patterson vs. City. Josephine White vs. City Officers.

I have also assisted the building inspector and the health inspector by re-I am, respectfully yours, porting violations of their laws.

F. DE HARVEN, Police Officer and Street and Sidewalk Inspector.

Roster of Police Force, City of Minneapolis.

NAME.	RANK.	NATIVITY.	FIRST APPOINTED.
			The state of the s
Brackett, W. M Bosworth, W. W Buefening, M	Superintendent	United States United States	January 8, 1889. May 12, 1875. May 22, 1875.
Buefening, M	Captain	Germany	May 22, 1875.
Ness, Louis	**	Norway Germany	April 18, 1883.
Hein, Jacob	66	Germany	April 18, 1883. June 19, 1878, April 30, 1886.
Ness, Louis. Hein. Jacob Day Dan'l A Walton, Swan Bean, J. S. J. Nelson, Thomas. Coskran, Thos. Kennedy, Pat'k Norman, Jno. Kennedy, Ino.	Lieutenant	United States	May 9, 1878.
Bean, J. S. J.	44	SwedenUnited States	April 16, 1884.
Nelson, Thomas	"	Norway Ireland	May 1, 1880. April 16, 1884.
Coskran, Thos	Sergeant.	Ireland	A n ni 1 11 1976
Norman, Jno	Sergeant	Swadon	April 11, 1876. April 24, 1885. May 18, 1887. June 14, 1882. April 16, 1884.
Kennedy, Jno	" "	Ireland Ireland New Brunswick. United States.	April 24, 1885.
Dunn, Wm		New Proposition	May 18, 1887.
Pierce Washington	**	United States.	April 16, 1884
Allen, James	**	Canada	April 8, 1879. April 18, 1883. April 24, 1885.
Volk, Aug		United States	April 18, 1883.
Fox Patriols	44	United States Ireland	April 24, 1885. April 14, 1882.
Brueshaber, W	** ************************************	United States	April 16, 1883.
Norman, Jno. Kennedy, Jno. Dunn, Wm. Leonard, J. H. Pierce, Washington. Allen, James Volk, Aug. Foster, W. S. Fox, Patrick. Brueshaber, W. Kirkham, S. A. Gustafson, C. V. Hankinson, J. W. Howard, James.	6.	United States	April 16, 1883, May 1, 1884; off 19 mos. April 18, 1883, May 12, 1875.
Gustafson, C. V	Detailed increases	Sweden United States	April 18, 1883.
Hankinson, J. W Howard, James	Detailed inspector	Ireland	June 14, 1882.
Lawrence, Joseph	** **	United States	June 14, 1882. April 18, 1883. August 1, 1886.
Lawrence, Joseph Doyle, Jas. G. George, Fred. A Mallon, M. J.	4.	Canada	August 1, 1886.
Mallon M. I		United States Ireland	April 30, 1886. October 1, 1880
Hoy, Jno. P. Ray, Enoch.		United States	October 1, 1889. April 15, 1886; off 10 mos. April 24, 1885.
Ray, Enoch	Detailed Lis. Inspr	United States United States	April 24, 1885.
Byrnes, Jno	" Ct. officer	Ireland	April 11, 1877; off 1 year.
Megaarden P T		United States	April 6, 1884. April 30, 1886
Coffin, Fred. E	Mounted sergeant	Norway United States	April 30, 1886. April 18, 1883.
Deveraux, M	" patrolmen	Canada	April 18, 1883
Ray, Enoch. Byrnes, Jno. Campbell, J. C. Megaarden, P. T. Coffin, Fred. E. Deveraux, M. Guimont, M. Pickett, D. E. Mathieson, H. Smeby, M.		Canada United States	April 16, 1884. April 30, 1886. April 30, 1886. April 30, 1886. April 30, 1886.
Mathieson, H	" "	Scotland	April 30, 1886.
Mathieson, H Smeby, M. Hoban, E. W. Linehan, P. W Fay, J. C. Getchell, H. L. Almour. Wm Griffin, Harry. Shean, James. Hunton, N. B.	"	Norway United States	April 30, 1886.
Lineban P W		Ireland	August 1, 1886. November 1, 1887.
Fav. J. C.		Ireland.	April 30, 1886.
Getchell, H. L	"	United States	April 30, 1886. April 24, 1885.
Almour, Wm		(lanada	January 6, 1887. July 30, 1886.
Shean, James.	" " …	United States United States United States	June 30, 1887.
Hunton, N. B	**	United States	June 30, 1887. November 1, 1887.
Hunton, N. B Shephard, Fred. C Williamson, F. J Thompson, D. L	" " …	United Statet	April, 1884; off 2 years. June 30, 1887.
Thompson D L	" "	United States	February 2 1880
Butler, James	Patrolman	Canada Ireland	April 10, 1877.
Butler, James	**	Ireland	February 2, 1889. April 10, 1877. April 9, 1878; off 1 year. July 5, 1876; off 1 year. February 20, 1880. April 11, 1882. Lune 14, 1882.
Gardner J M	Detailed jailor Patrolman	Ireland	July 5, 1876; off 1 year.
Cronin, Jno.		Sweden United states	April 11, 1882.
Mauren, Nie Kennedy, A. J Bradley, Peter		Prussia United States	June 14, 1882. June 14, 1882.
Rennedy, A. J		United States	June 14, 1882.
Brudigan, Henry	Detailed Jailor Patrolman	Ireland	June 14, 1882. June 14, 1882. June 14, 1882. June 14, 1882.
Brudigan, Henry. Brady, Mack. Shelly, O. M. Needham, A. B. Kennedy, Mike. Mousso Paul. McNamara, Thos. Enseh, Jno. Gorey, Jno. Burli, Hans. Hurley, Patrick	"	United States	June 14, 1882.
Shelly, O. M	Dotailed in it	Norway United States Ireland	September 1, 1882
Kennedy, Mike	Detailed jailor Patrolman	Ireland	January 1, 1883. April 18, 1883. April 18, 1883.
Mousso Paul	" "	United States	April 18, 1883.
McNamara, Thos	Detailed driver	Ireland	April 18, 1883. April 18, 1883. April 18, 1883.
Gorev. Jno	Patrolman	Germany United States Norway	April 18, 1883. April 18, 1883
Burli, Hans	' attoman	Norway	April 11, 1882.
Hurley, Patrick Schroeder, Jno. Boisclair, Oliver Powers, G. M.	6.	Canada	April 11 1889
Boisclair Oliver		Germany	April 11, 1882. April 16, 1884. April 16, 1884.
Powers, G. M.		United States	April 16, 1884.
Faurskow, Holgar	**	Sweden United States	April 16, 1884.
Hellrich, Chas		United States	April 16, 1884. April 16, 1884.
Faurskow, Holgar Hellrich, Chas Brault, J. P. Martinson, Peter	"	Canada Sweden	April 10, 1884. April 23 1884
Wold, J. E		Norway	April 23, 1884. April 23, 1884.
Wold, J. E Van Riekley, J		Prussia	April 16, 1883.

Roster of Police Force Continued.

NAME.	Rank.	NATIVITY.	FIRST APPOINTED.
Rice, John	Patrolman	United States	April 16, 1883.
Rice, John,		United States	November 5, 1884.
Grattan, James	**	Ireland	April 20 1884
Swanson, N. P Moore, C. II Mealey, Michael	Detailed driver	Sweden United States	November 19, 1884. April 24, 1885. April 24, 1885.
Mealey, Michael	Patrolmen	United States	A mail 94 1995
Moshelle, J. H	**	Germany.	
Kvittum, J. V	**	Norway	April 24, 1885. April 24, 1885. April 24, 1885.
Moshelle, J. H Kvittum, J. V Collins, Thos. L Hurley, P. J White, B. S	**	Norway United States Ireland	April 24, 1885.
White B.S		United States	Aug. 20, 1884, off 1 year.
McQuald, Jno		New Brunswick	April 24, 1884, off 1 year. April 24, 1885. April 30, 1886. April 30, 1886.
Mingo, Jno Shafar, Thos		Germany	April 30, 1886.
Shafar, Thos		Austria	April 30, 1886. April 30, 1886. April 30, 1886. April 30, 1886. April 30, 1886.
Stewart, Jno Porcher, C. S	**	Denmark	April 30, 1886, April 90, 1996
Zalusky, Frank		United States United Statee	April 30, 1886
Zalusky, Frank Zimkowski, Jno Czaia, Albert Wold, Odin Watkins, O. H Maloney, Jno Johnson, Geo. J.		Poland	
Czaia, Albert	**	Prussia	April 30, 1886.
Wold, Odin		Norway. United States.	April 30, 1886. April 30, 1886. April 30, 1886.
Maloney, Jno		United States	April 30, 1886. April 30, 1886
Johnson, Geo. J		NORWAY	April 30, 1886. April 30, 1886. April 30, 1886.
		United States	April 30, 1886.
Gulden, Robt Morrisey, Jno Knudson, Louis		Germany United States	A DPIL 30 1886
Wordson Louis	**	Norway	April 30, 1886.
Novack, J. C	**	Norway United States	April 30, 1886
Novack, J. C DeHarven, F	**	France	April 30, 1886. April 30, 1886. April 30, 1886. April 30, 1886. April 30, 1886.
Schwam, Aug	Detailed jailor		April 30, 1886.
Zimmerman, S Rauen, Nic Bostwick, R. L	Detailed jailor	Switzerland	April 30, 1886. April 30, 1886. July 30, 1886. April 30, 1886.
Rostwick, R. L	" driver	Germany	July 30, 1886. April 30, 1886
Hoyt, Albert		United States	April 30, 1886.
Stavalo, Jno	ratronnan	Norway. United States.	July 30, 1886.
Von Trieb, Matt McNulty, Simon	**	United States	July 30, 1886.
Sieverling, M		Ireland	April 30, 1886. July 30, 1886.
Sieverling, M Delano, L. G	**	Germany United States	July 30, 1886.
Rieviere, Geo	6.	Uanada	July 30, 1886.
Mayo, Geo Clukey, Frank		United States United States	July 30, 1886.
McLaughlin, Peter	Detailed driver	United States	December 3, 1886.
McLaughlin, Peter Schwab, Jno. B	" court officer.	Germany	March 1, 1887.
Quealey, P. J. Courtney, Jno Hannon, John Sulliyan, Jas. F.	Patrolman	Ireland	May 18, 1887.
Courtney, Jno	**	Ireland	May 18, 1887.
Sullivan, Jas. F	4.4	Ireland	May 18, 1887.
menuity, Edward	**	Ireland	May 18, 1887.
Yost, Jacob		Germany	May 18, 1887.
McKenna, Jno Bacon, B. W	4.	United States	May 18, 1887.
Rankins, Ambrose.		United States	May 18, 1887.
Rankins, Ambrose Collins, Richard J	Detailed driver	Canada	June 28, 1887.
Fox, Wm	Patrolman	Ireland United States	June 30, 1887.
Galvan, John Derrick, D. H	4.	United States.	March 1, 1887. May 18, 1887. June 29, 1887. June 30, 1887. June 30, 1887. June 30, 1887.
Loniban M		Ireland	June 28, 1887. June 30, 1887. June 30, 1887. June 30, 1887. June 30, 1887.
Weimelt, Henry	"	Ireland	June 30, 1887.
Weimelt, Henry Garvin, Thos. H Bean, A. L	**	United States	June 30, 1887.
Hasay Elijah	26	United States United States	November 1, 1887.
		United States	N 1 100%
Fox. Peter	4.6	United States	November L. 1887.
Hasey, Elijah Fox, Peter Cronin, M	66	United States United States	November 1, 1887. November 1, 1887.
Cronin, M	64	United States United States Ireland	November 1, 1887. November 1, 1887. November 1, 1887. November 1, 1887. November 1, 1887.
Cronin, M	66	United States	November L. 1887.
Cronin, M	66	United States	November 1, 1887. November 1, 1887. November 1, 1887. November 1, 1887.
Cronin, M	" … … … … … … … … … … … … …	United States United States United States Ireland	November 1, 1887. November 1, 1887. November 1, 1887. November 1, 1887. April, 1883; off 3 years
Cronin, M. Ryan, J. M. Molan, Jno. Johnson, A. P. Russell, Thos. Kelley, Thos. J. Smith, Nic.	44	United States. Sweden. United States. United States. Ureland. United States.	November 1, 1887. November 1, 1887. November 1, 1887. November 1, 1887. April, 1883; off 3 years
Cronin, M Ryan, J. M. Molan, Jno Johnson, A. P. Russell, Thos Kelley, Thos. J. Smith, Nic.		United States. Sweden United States. United States. Ireland United States. Canada.	November 1, 1887. November 1, 1887. November 1, 1887. November 1, 1887. April, 1883; off 3 years
Cronin, M. Ryan, J. M. Molan, Jno. Johnson, A. P. Russell, Thos. Kelley, Thos. J. Smith, Nic. Provost, Amos. Tedman, H. G.		Ireland United States. Sweden United States Lreland United States Canada. United States	November 1, 1887. November 1, 1887. November 1, 1887. November 1, 1887. April, 1883; off 3 years
Cronin, M. Ryan, J. M. Molan, Jno. Johnson, A. P. Russell, Thos. Kelley, Thos. J. Smith, Nic. Provost, Amos. Tedman, H. G.		Ireland United States. Sweden United States. Ireland United States Canada United States United States United States. United States	November 1, 1887. November 1, 1887. November 1, 1887. November 1, 1887. April, 1883; off 3 years
Cronin, M. Ryan, J. M. Molan, Jno. Johnson, A. P. Russell, Thos. Kelley, Thos. J. Smith, Nic. Provost, Amos. Tedman, H. G. Wold, Aug. Michaud, Henry. McLeod, M. R.		Ireland United States. Sweden. United States. Ireland United States. Canada. United States. Norway United States. Nova Scotia.	November 1, 1887. November 1, 1887. November 1, 1887. November 1, 1887. April, 1883; off 3 years
Aronin, M. Ryan, J. M. Molan, Jno. Johnson, A. P. Russell, Thos. Kelley, Thos. J. Smith, Nic. Provost, Amos. Tedman, H. G. Wold, Aug. Michaud, Henry. McLeod, M. R. Hicks, Oscar		Ireland United States. Sweden United States. Ireland United States Canada United States United States Norway United States Nova Scotia	November 1, 1887. November 1, 1887. November 1, 1887. November 1, 1887. April, 1883; off 3 years
Cronin, M. Ryan, J. M. Molan, Jno. Johnson, A. P. Russell, Thos. Kelley, Thos. J. Smith, Nic. Provost, Amos. Tedman, H. G. Wold, Aug. Michaud, Henry. McLeod, M. R.		Ireland United States. Sweden. United States. Ireland United States. Canada. United States. Norway United States. Nova Scotia.	November 1, 1887. November 1, 1887. November 1, 1887. November 1, 1887. April. 1883: off 3 years

Roster of Police Force-Continued.

NAME.	RANK.	NATIVITY.	FIRST APPOINTED
McNiven, D. J.	Patrolman	Nova Scotia	February 2, 1889.
Dahlgren, Jno	44	Sweden	February 4, 1889.
Arnold, A. C	6.	United States	February 2, 1889.
ambold, J. S	44	United States	February 2, 1889.
Wiley, Oscar H	**	United States	February 2, 1889.
Brown, C. E.	**	United States	February 4, 1889.
Ward, Jno. A	**	United States	February 18, 1889,
Hatch, C. M. B	4.	United States	February 18, 1889.
Farrell, Leroy		United States	February 18, 1889.
arrent IZ O	66	Norway	February 18, 1889.
Aasgard, K. Ó Bahan, Geo. W	66	United States	
York, Geo. W	**********	United States	February 20, 1889.
			February 20, 1889.
Orake, Fred. M Robinson, Jas. H		United States New Brunswick	February 20, 1889. June 1, 1889.
Crich, Jno. G		Canada	June 1, 1889.
Farrish, Howard A		United States	June 1, 1889.
Thorbergsen, T. C	*********	Norway	June 1, 1889.
Erickson, A. G		Sweden	June 1, 1889.
Chompson, Jno. H	46	Sweden	June 1, 1889.
Kerr, Jno		Canada	June 4, 1889.
Nisted, Wm		Denmark	June 17, 1889.
Collefson, Iver	"	Norway	June 17, 1889.
Metzger, Chas	46	United States	June 18, 1889.
Johnson, H. J	44	United States	June 18, 1889.
Kennedy, R. J	44	United States	June 18, 1889.
Anderson, Peter	46	Norway	June 18, 1889.
Averill, H. S	46	United States	August 5, 1889.
Finnegan, W. H	66	United States	August 1, 1889.
Noren, Aug	46	Sweden	August 1, 1889.
Plumer, R. A	6.	United States	August 1, 1889.
Rutledge, J. F	66	United States	August 1, 1889.
Stuart, A. A	**	United States	August 1, 1889,
Allen, W. F	"	United States	August 26, 1889.
Lawler, L. H	"	United States	August 26, 1889.
Howes, Frank H	"	United States	August 26, 1889.
Malone, W. B	"	New Brunswick	August 26, 1889.
Frepanier, A. H	"	United States	August 26, 1889.
Hanson, Lars	46	Denmark	August 26, 1889.
Mason, Chas. L.	• •	United States	August 26, 1889.
Havelsrud, O	"	Norway	August 26, 1889.
Langdon, Robt	"	Norway	August 26, 1889.



ANNUAL REPORT

OF THE

DEPARTMENT OF HEALTH,

OF THE

City of Minneapolis

For the Fiscal Year Ending December 31, 1889.

S. S. KILVINGTON, M. D., Chairman and Commissioner of Health.

DEPARTMENT OF HEALTH.

CITY OF MINNEAPOLIS.

Hon. E. C. Babb, Mayor,

Alderman H. W. Brazie, M. D., Alderman J. C. Sterling,

Alderman E. G. POTTER,

S. S. Kilvington, M. D., Chairman and Commissioner of Health.

EMPLOYES: ,

CLARIBEL S. BARD, Clerk.

Medical Inspectors:

R. O. BEARD, M. D., H. M. BRACKEN, M. D., W. E. LEONARD, M. D.

Sanitary Inspectors:

E. G. O'DONNELL. F. A. SCHWARTZ, GEO. J. TURNER,

J. S. WOODBURY, J. A. ARNESON, W. H. FOSTER,

F. A. Briggs.

Quarantine Hospital:

HERBERT SCOTT, Supt., ABBIE SCOTT, Matron.

Dump Police:

DAVID K. HANSCOME, GEO A KELLY, DUDLEY NEE.

DEPARTMENT OF HEALTH.

MINNEAPOLIS, MINN., January 1, 1890.

To the Honorable Mayor and Common Council of the City of Minneapolis, Minn.

GENTLEMEN-Since the presentation of the last annual report which issued from this office the limits of the municipal year have changed and it becomes necessary that the calendar of health should conform thereto.

Hence this communication, which has been made, in the past, upon the first of April, takes date, under the new law, upon the first of January.

Only nine months have intervened, therefore, since the writer had the honor to invite your attention to the general affairs of this department. In view of this fact, and considering how large a share of this report is statistical in form and that the value of health statistics depends greatly upon the uniformity of the period they cover, he has deemed it wise to include, in the present pages, the earlier months of the year and to preserve, even at the expense of some slight repetition, the annual feature of the returns. Moreover, by the adoption of this plan, he will be enabled to present a more complete picture of the progress which has been made and of the work which has been accomplished under the new regime.

The past year has been an eventful one in the history of the health department of Minneapolis. It has been a very active part of the transition period through which every community must pass in the course of its evolution into a great city,—a period which is always occupied in the slow recognition of its sanitary needs and in the gradual attainment of those sanitary methods which will adequately meet its necessities. The nature of these needs the writer had occasion to emphasize in his communication to your honorable body a year since. How far they have been met, the details of the work done will best tell. How much yet remains undone may be guessed from the urgency of some of the demands which he will have occasion to present to you in the succeeding pages of this report.

The year has witnessed the successful reorganization of the department of

health under a special act of the legislature enacted April 22d, 1889.

The new law was responsive to a recognition of the metropolitan proportions to which the city of Minneapolis has grown. The health-laws of the State, adapted to the limited needs of smaller communities, could no longer be accommodated to the wider scope and the peculiar requirements of a large city. The work of the department had become too varied and too

complex to be covered by general legislation.

For the fact that our health-interests had been so rapidly brought to the point of this necessity, the preparatory labors of the officials of the old board should receive a very large share of credit. The men, with whom the writer was first associated, whose faithful efforts he has often had occasion to applaud, found their initial duties encumbered by the crudest conditions in the equipment and service of the department. They were appointed to an office the functions of which they had fairly to create. And that they did their work well the results of today testify. When the new department was created—nine months ago—the president of the old board had nothing to regret but that his associates, ex-alderman G. W. Cooley and Dr. C. H. Hunter, were thereby legislated out of office with himself.

Apropos of that event, perhaps it may not be out of time or place for your present commissioner of health to express publicly to your honorable body his appreciation of the confidence which, in contravention of past political usage, dictated his own appointment to an office, created, under the new law, as a substitute for the place he had previously filled, under the general statute, by the courtesy of an opposing administration.

It has not been an easy task to effect the radical changes in the legal machinery and the working methods of the office which this special act has involved. For the co-operation and encouragement in this undertaking which he has received from his colleagues in the department—his honor Mayor E. C. Babb and Aldermen Brazie, Potter and Sterling, of the committee on health and hospitals,—your Commissioner is profoundly grateful.

To those officials who have lent their timely aid in the interpretation and enforcement of the new law,—notably the city attorney and his assistants, the judges and officers of the municipal court, the chief of police and his staff, and the building inspector and his aides—the especial thanks of the department are due.

To the representatives of the press, for the unfailing courtesy and fair spirit in which the health measures of the department have been discussed

and usually sustained, its acknowledgments are sincerely proffered.

The efficiency of the city's sanitary service is most justly to be tested by the results epitomized in the following pages. But it may not be amiss for your Commissioner to point especially to the improved *personnel* of the department, to the higher average of training and intelligence in the force and to the gratifying harmony which has attended the conduct of its affairs.

To his entire corps of medical and health inspectors and, in particular, to his acting assistant, Dr. R. O. Beard, he wishes to render, in this public manner, a due share of whatever credit may attach to the department as the

fruit of its labors in the year now drawing to a close.

To the careful attention of your honorable body the suggestions which the department will have to offer in the closing paragraphs of this report are

respectfully presented.

To the perusal of a considerate public, it desires to commend the facts and figures which are grouped in the following pages in the hope that it will find in them some food for encouragement, for instruction and, perhaps, for reproof.

Respectfully submitted,

S. S. KILVINGTON, M. D.,

Commissioner of Health,

RE-ORGANIZATION.

The health history of Minneapolis, for the first three months of the past year, was embodied in the annual report issued April 1, 1889. This initial period of the year was occupied in completing the work undertaken in the preceding twelve months, in perfecting the records of the office, and in preparing the department for prospective changes in its organization.

The old and cumbersome corps of thirteen ward inspectors was removed and was replaced by a temporary force of five men, chosen for their experience and fidelity, from the former list. In addition two new medical in-

spectors were added to the service and assigned to quarantine duty.

Upon April 22, 1889, the bill for the re-organization of the department of health of the city of Minneapolis became a law. Under its provisions, the members of the old board of health were retired, and upon April 26 the council proceeded to meet the requirements of the act by the appointment of a commissioner of health, to serve until January 1, 1891. Dr. S. S. Kilvington, the former president of the board and health officer of the city, received the majority of the council votes and was declared the choice of your honorable body. The new department, consisting of the mayor, the members of the committee on health and hospitals, and the newly elected commissioner organized at once for active service.

A competitive examination, upon important sanitary details, was held for the purpose of determining the selection of a new corps of health inspectors. It resulted in the selection of Messrs. F. A. Briggs, E. G. O'Donnell, Wm. Foster, J. A. Arneson, F. A. Schwartz, Geo. J. Turner and J. S. Woodbury.

Dr. R. O. Beard was retained in his position as assistant, and Drs. W. E. Leonard and H. M. Bracken were re-appointed to the medical inspectorships. The tried efficiency of Miss C. S. Bard won her deserved retention, also, as clerk of the office.

Alike in the appointment of the commissioner of health and in the make-up of the entire sanitary service, partisan principles were noticeably set aside and a long step was taken toward putting the department upon a

civil service reform basis, a move of which we sincerely trust the future may prove the permanency. There is every reason why the personnel of such a sanitary system as Minneapolis needs should be chosen by a standard of fitness outside of mere party lines. During the past year the superior quality and easier training of the smaller number of health inspectors employed, have been demonstrated by the results of their labors which the following pages will record. The urgent need of a limited but competent corps of medical men in the service requires no emphasis in a city the size of Minneapolis, approaching, as it is, that period of its history when infectious and contagious diseases will tend to become endemic. That combined intelligence, tact and sanitary knowledge, which are the essential qualifications of every health official, can best be secured when the choice is untrammelled, as much as may be, by political considerations; and in no department of a municipal government is it more to be desired that tried and efficient service should constitute a reason for retention in office in the face of all political changes.

It requires a twelve-month, at least, to train any member of such a force to his highest degree of efficiency, and, when he has once mastered the sanitary details pertaining to his office, it is a sacrifice to the public welfare to

compass his dismissal, excepting for personal cause.

The special law, under which the department was re-organized, had for its objects not only the improvement of the sanitary service, but also the improvement of the sanitary system with the support of which that service is charged. "The government of the health and the quarantine of the city of Minneapolis" is the other specific purpose of the act. It defines the powers of the department, it widens the scope of its activities, it improves the machinery of its working methods. So important are many of its features to the general public, so difficult of access is it, until its issuance shall be secured in some volume of law reports, so frequent have been the pleas of ignorance regarding its enactment or its provisions, coming alike from the lawyers and the people, that the department has deemed it advisable to publish in these pages some selected portions of the law. As a part of this official report these sections will secure the attention which their chance publication at any other time would not command.

To the merits of this law, as well as to the merits of the force, must be attributed a share of the success which the department has achieved in

extending its work along new and previously undeveloped lines.

By virtue of the authority granted the department under this act, it adopted and published in the official paper of the city, on July 16, 1889, a series of rules and regulations covering those minutiae of sanitary control which are not specifically stated in the act itself. For the further information of the public this code will be reproduced as an addendum to the volume in hand. It is in the nature of a revision of the sanitary code, which existed under the old law and was first formulated by the present commissioner in 1887. At the same time it is more concise in statement and more inclusive in detail. Section "22 A" has been added since the revision and governs the holders of, or applicants for books from the public library in whose households contagious disease may exist.

These two instruments, the special law and the rules and regulations, constitute the working weapons of the department and are enforced by action in the Minneapolis court, under a penalty of fine not exceeding one hundred dollars (\$100), nor less than ten dollars (\$10).

The classification followed in these rules may be usefully adopted in our discussion of the several duties of the department. These come under the following heads:

Food and Water Inspection. (1.) (2.)Nuisance and House Inspection.

(3.)Diseased and Dead Animals.

(4.)Scavenger Service.

(5.)Human Contagious Diseases.

(6.)Deaths.

Burials and Disinterments:

To these several interests your attention is earnestly invited.

FOOD AND WATER INSPECTION.

The recent legislation, to which we have already referred, endows this department with authority to enforce all laws relating to the use or sale of poisonous, unwholesome or adulterated foods and directs it to take such measures as may be necessary to preserve the purity of the sources of water-

supply.

Minneapolis is to be congratulated that, within the past year, she has materially improved her supply of potable water by the transference of the principal intake to the North Side pumping station. For every progress in this direction a great city should be profoundly thankful. No larger factor in the maintenance of the public health exists than a pure drinking water. The Mississippi river, at this or any other point, can, perhaps, never be regarded as an ideal source and the city may eventually have to look farther for its means of supply; but the change from an intake, lying in the midst of that part of the stream polluted by a large share of the city's sewage, to an intake, situated above and beyond the great avenues of pollution, is a manifest blessing.

By so much as the distribution of the city water to the residences of the people is incomplete, the old problem of well-water supply still remains. The number of wells in use within the city limits is still unfortunately large, for not one in a hundred is situated in a soil which guarantees the quality of its water. This is in no way remarkable when we remember how large a part of the city of Minneapolis is underlain by a gravel drift of from 25 to 150 feet in depth. It is a notable fact that by far the majority of the contagious diseases and deaths occur in those districts which are supplied with well water. It goes without saying that a surface well is constantly liable to infection by the drainage into it of surface impurities or of materials from neighboring cesspools and privy vaults. In many instances the department has ordered the abandonment of grossly polluted wells, and it might go further in this direction could it have at its command the services of a competent chemist. At the same time the department has been disposed to proceed cautiously in this matter, realizing that, until the city water can be brought to the doors of the people, it would be a hardship in many instances to deprive them of the water which, though undesirable in quality, comes from their sole source of supply.

It is a matter for regret that the city cannot indulge in the same measure of self-applause regarding her methods of food inspection. Taking into account all that has been done in this direction by the agencies now at work in the way of the state dairy commission and the local inspectorship of aressed meats, it is still deplorably true that the public of this great city is not adequately protected by any due oversight of articles of food intended for human consumption. Censorship over dressed meats is but a limited affair at the best. The naked eye can do little to detect ill conditions in meat and, while the microscope can do much, it will yield its results only to the trained hand and eye of the microscopist. The dairy commission is doing excellent work, but it has too wide a field to cover to be anything but occasional in its examination of the milk and butter supply of this large com-

munity.

Inspection of cattle on the hoof was provided for by the last legislature in the now famous meat inspection law. Acting upon its provisions, the department appointed J. A. G. Richardson as inspector, on April 29th, and for the five months following he conducted regular examinations of animals prior to slaughter. Within this period he inspected 10,477 animals. During this time the law was on trial repeatedly in the courts, which ruled against its constitutionality. On September 30, acting under the counsel of the city attorney, the department suspended the work of inspection on the hoof, pending a decision by the supreme court of the State. Whatever may be the merits of the law from a commercial standpoint, there can be no doubt in the mind of the sanitarian that animals intended for human food should be subjected to rigid inspection before slaughter. There are a number of diseases, and notably the various manifestations of tuberculosis, which affect cattle, the pre-existence of which cannot be determined by an examination of the dressed meat, but which justify the condemnation of the carcass as human food. Whether within or without the limits of the State competent

inspection should determine the physical integrity of cattle before and after they are killed, and a certificate, vouching for its fitness as food, so deter-

mined, should accompany the meat wherever it is sent or sold.

Not less important is it that the health of animals supplying milk for human consumption should be determined by periodical examinations, or that such staple articles as butter, lard, sugar, spices, baking powders, etc., should be subjected to careful analysis. Constantly is the department importuned to undertake the details of this duty assigned to it under the law, while it is compelled to decline such service because it has neither the means nor the men at its disposal for so large, though so necessary a task.

Attention is invited to the table of meat inspections included in the

statistical pages which follow.

NUISANCE AND HOUSE INSPECTIONS.

In no branch of the service can the progress of the department be more satisfactorily shown than in the abatement of nuisances and the inspection of houses. During 1889, with only seven men at its command, the department has more than trebled the work accomplished, in these lines, by the entire corps of thirteen men employed in 1888. Better machinery, as to the law; better organization, as to the office; and better training and intelligence in the force, are the factors which have entered into this result.

A reference to the comparative tables which follow will prove instructive to the reader. Therein it will be noted that against 1,598 complaints of nuisance and 634 written notices to abate the same, issued in 1888, the department has a record of 5,804 complaints and 1,814 written notices for

abatement issued in 1889.

The methods, also, of conducting this branch of the service have undergone a radical improvement. The men formerly engaged in the work regarded it as the fulfillment of their entire duty if they awaited and acted upon the complaints of nuisance received from private citizens. The force of today is employed and trained to keep the city clean, to exclude animal and household refuse from the public alleys, to abate the practice of throwing waste material upon the surface of the soil, to secure the periodic removal of garbage and manure and the regular cleansing of vaults and cesspools. The department is grateful for any aid which the public is disposed to give, in the way of information of existing nuisances, but it proposes to hold its inspectors responsible for the discovery of insanitary conditions within the districts to which they are assigned. Not less than nine-tenths of the nuisances abated during theyear have been reported to the office by members of the force.

It is the custom of the department to give verbal notice to abate nuisance and, if this does not secure compliance, to serve, in accordance with the law, a written notice, ordering an abatement of the same within a given number of days. Failure to respect this notice is a violation of the law and necessitates carrying the case into the municipal court. It is the policy of the department to hold the owner responsible for the sanitary condition of his property, whether occupied by himself or leased to another. If the owner is a non-resident in the city, or has delegated his control of the property to an agent, the latter is similarly held. If a direct and wilful violation of the health-law can be proven against a tenant or occupant, the department is glad to relieve the owner or agent of the burden of the offense, but, as a rule, this is impossible, and the public interest is best subserved by fixing the responsibility upon the permanent proprietor rather than upon the transient tenant.

It is a tribute to the good sense and public spirit of the community that the written notices of the department are commonly respected and but seldom does the ultimate necessity arise for carrying nuisance cases into court. In some thirteen instances only has it been necessary to enforce obedience by this means, and that justice has been upon the side of the department, on these rare occasions, is evidenced by the fact that in nine of these cases the finding of the court has been in favor of the state.

While prevention is universally conceded to be better than cure, it must be remembered that the primary duty of the department is to remedy existing evils, to investigate complaints, to abate nuisances, to eradicate actual disease: and that, only after these things are done, can it wisely

employ its officials in the inspection of houses and public buildings, or in hunting down the possible causes of future ill. Viewed in this light, it is satisfactory to note how well the opportunity for the performance of these secondary duties has been used. In 1888, 613 house inspections were made. In 1889, the relatively small force of men has increased this total to 1833. A very large proportion of these house inspections have been made along the line of sewered streets, for the purpose of determining, not only the general sanitary conditions of the buildings inspected, but also the adequacy of their plumbing facilities and water supply and the fact of the existence or non-existence of sewer connections therein. It is proposed to make the information, so obtained, the basis of a systematic endeavor to induce the completion of sewer-connections upon these streets and the abandonment, along these lines, of those standing menaces to public health-the privy vault and the cesspool. No more important step for the sanitary welfare of the city could be taken and the department has expected to have its hands strengthened in the endeavor, by your honorable body, through the passage of the proposed ordinance regulating sewer-connections, vaults and cesspools. Some apparent doubt of its expediency seems to have delayed the decisive action which the department still hopes to see taken upon it. With the assistance of this measure, the good work will go smoothly on; without it, the more cumbersome machinery of the special State law must be invoked.

A very complete inspection of houses has also been made in certain districts which have been notably infected with scarlet fever, diphtheria and typhoid fever, with a view to localizing the foci of these diseases, discovering their causes and limiting their spread. The good results of these efforts

are manifest in a gradual but steady decline of these maladies.

While the department is under the necessity of emphasizing the secondary importance of house inspection, it is its ultimate object, nevertheless, to carry on this work, in the course of time, to the point of completion. It proposes by this means to put the city in possesion of a sanitary history, as it were, of every dwelling and public building and, to this end, the office has been provided with a full series of Rascher's insurance maps which will form an illustrated index to the files of house inspections as fast as they are completed. The task is a large one, but its value will ultimately justify the time and labor which have been and will be put upon it. These maps and files will always be open to the public and if any one, who is desirous of obtaining a report of a given building, finds that the inspection upon it has not yet been made, the department will be glad to receive his application for the same and to assign a deputy to the task of making a special inspection

as early as the more imperative duties of the office will permit.

A feature in this branch of the sanitary service, which year by year becomes more and more prominent, is the demand, which must continually increase as the city grows, for the services in this department of a trained plumbing inspector. The office is in daily receipt of complaints concerning defective plumbing and it usually requires a trained eye and a skilled hand to discover the nature and location of the defects and to determine their sanitary importance. The head of the department of buildings, Mr. John M. Hazen, and his assistant, the plumbing inspector, have cheerfully and ably seconded the efforts of this department to respond to these calls; but such occasional assistance is not adequate to the public needs, nor should it be demanded of officials who are busily engaged in their own peculiar duty of supervising the construction of new plumbing. Few nuisances are more actively dangerous than those which arise from imperfections in plumbing and it is is doubtful if anything would more materially benefit the public health than a systematic inspection of these conveniences in private houses and business blocks, followed by a general repair of the numberless faults which are common thereto. The writer would earnestly commend to your consideration the wisdom of adding such an employe to the force.

No systematic inspection has been attempted, during the past year, of the public school buildings of the city, upon which a very detailed statement was made in the pages of the last annual report. The importance of the subject of school house sanitation cannot be too persistently urged upon the public mind, and it is well for the city that its board of education is alive to the fact. It is a matter for congratulation that the remainder of the old

Madison school building has been destroyed and that, in its place, the other half of an improved sanitary structure has been reared. It is to be hoped that, within the coming summer, the Jackson school building, which remains

in a most unsanitary condition, will be consigned to the same fate.

Perhaps it is too much to expect that expensive systems of ventilation should be speedily put into old school-houses, but the department would urge that it is most undesirable to put up new buildings with anything short of "the fan system"—the only method of ventilation which, for such structures, is a demonstrated success. Wherever large numbers of people are habitually congregated, and particularly wherever young children are massed together, the sanitary conditions should be above reproach; for it must be remembered that the dangers of insanitary surroundings multiply in direct ratio to the number of persons assigned to the occupation of a given space.

Some minor complaints have been received in the course of the year from individual school buildings concerning incidental nuisances, but these have been easy of removal and have received the prompt attention of the school

authorities.

DISEASED AND DEAD ANIMALS.

In every large community the prevalence of disease and death among domestic animals is a matter of sanitary as well as economic concern. In fact, so large is the number of these animals, ranging in size and value from the horse to the cat, which die annually, that their removal constitutes the most considerable and expensive item of our scavenger service. It is too often the case that owners discard their property in live stock just as soon as disease or decrepitude renders it unprofitable and, by the time death overtakes the disowned and disabled brute, the disposition of its remains has

become a charge upon the public purse.

The most virulent of the animal diseases, which prevail within the city limits, is glanders, a malady which attacks by preference the horse and the mule. In past years the cases reported have been disagreeably numerous. The importance of its discovery and suppression is emphasized by the fact that it is easily communicable to man. In fact, the duty of isolating and destroying animals infected with this disease may be said to be the most extra hazardous business of the department. The vigorous measures it has employed, however, in dealing with the malady, have been fruitful of good results. Reference to our summarized tables shows that less than two-thirds the number of cases have been quarantined during the past year, that were isolated in the preceding twelve months, while only one-half the number have been killed.

The duties of the department in this direction are rendered more burdensome by the opposition of many ignorant, so-called veterinary surgeons, who, for the sake of gain, profess an ability to cure what is generally conceded by the highest authorities to be an incurable disease. By these abuses of public confidence, certain stables in the city have become seriously infected, and in one or two instances it has become necessary for the department to order

the destruction of barn buildings.

As compared with preceding years, there has been a satisfactory absence of hog cholera in the city—an immunity which is due in large part to the absence of the hogs themselves; the hog-pens having been removed beyond

the limits by order of the department in the early part of the year.

In discussing the question of food inspection enough has already been said of the almost universal tendency among cattle to tubercular diseases. It is safe to say that were the means provided for the exercise of the same measures in the detection and suppression of tuberculosis among milch cows and beef steers which are employed in the discovery and management of glanders among horses, the milk and the meat supplied to the community would be of higher grade and would seldom be the media of contagion which now they often are.

THE SCAVENGER SERVICE.

So long as the present commissioner of health has been at the head of the department he has urged the wisdom of placing the scavenger business under a license system. So closely related is this occupation to the public health and so injurious does it become unless conducted with scrupulous care, that the propriety of putting it under official control, by a method

which would make the benefits of a license depend upon conformity to certain sanitary regulations, would seem to be beyond cavil. So far, however, your honorable body has not concurred in this view and the department has been thrown back upon such limited power as it possesses, under the

health law, to regulate the scavenger service.

To this end it has issued rules forbidding the emptying or cleansing of vaults or cesspools until a permit so to do has been granted from this office. This permit dictates the hours within which such scavenger service shall be performed and the manner of its performance. Its issuance depends upon the submission by the scavenger of his wagon and other utensils to careful inspection, as often as may be required by the department, and upon the maintenance of the same in a condition approved by the latter. The permit must accompany the scavenger wagon to the dump and be delivered to the dump-keeper, who returns it promptly to the health officer. Vaults and cesspools must be cleaned to the bottom and, together with their surroundings, must be left in a sanitary condition.

Failure to comply with any of these rules subjects the scavenger to a refusal of future permits. So far, the plan has worked well and is, to say the least, an improvement upon the former absence of all regulation of the

scavenger's business.

The volume of this business carried on within the city limits is increasingly large. It is estimated that 108,924 loads of garbage and other refuse and 9,703 loads of night-soil have been disposed of during the past year, while orders have been issued by the department for the removal of 2,208 dead animals, in addition to the many removed by private owners. The Mississippi river is still used as the principal depository for these waste materials, although this pernicious practice has been condemned by the chief of the U. S. engineering corps in this district in his report to the government.

The city is under contract with the Northwestern Scavenger Company for the removal and dispesal of such dead animals and refuse as must be cared for at the expense of the city, subject to certain sanitary regulations imposed

by the department.

HUMAN CONTAGIOUS AND EPIDEMIC DISEASES.

With each succeeding year, the student of contagious and epidemic disease in Minneapolis must be newly impressed with the fact that among the undesirable conditions of metropolitan growth, is the tendency of certain maladies of this class to become epidemic or ever-present in the community. It is one of the most important functions of a health department to post-

pone or limit the operation of this almost inevitable tendency.

The principal diseases, which thus make their home in a large city and may, at times, assume epidemic proportions, are smallpox, scarlet fever, diphtheria, measles and typhoid fever. So many are the avenues through which these diseases gain entrance to a city, so ripe are the conditions which assist in their propagation, so careless are the majority of the people of the necessity for the rigid isolation of those who are attacked, and so general is the disposition to shun quarantine restrictions, that the task of suppression or exclusion is beset with difficulties.

To meet these conditions, so far as possible, the department employs a force of medical inspectors, whose duties are largely confined to the investigation, quarantine and disinfection of contagious diseases and the houses in which they exist. These physicians act under the direct supervision of the commissioner of health and have found, during the year, opportunities for

the employment of their best endeavors.

The last annual report submitted to your honorable body detailed the circumstances of the outbreaks of smallpox which occurred in January and February last. Active measures were taken at that time to suppress the

disease, and with apparent success.

Nothing more was heard of the malady until November 18, when a man, engaged as a book agent, who reported that he had been sick for several days, presented himself at one of the private hospitals in this city. The physician in charge, being doubtful of the nature of the complaint, sent him to Dr. M. P. Vander Horck, who immediately diagnosed the case as one of smallpox and turned it over to the department. The commissioner immediately summoned all his available force, sent the patient and three of his

associates, who had closely companioned him for several days, to the quarantine hospital, and proceeded to the task of following up and vaccinating exposed persons. The attempt was embarrassed by the fact that these men had led an itinerant life, had canvassed large areas of the city, and had boarded at several public restaurants. A large number of people, however, were vaccinated, and, in order to put a premium upon vaccination in general, the department announced an offer to put vaccine points into the hands of any physicians, free of cost, who would vaccinate patients without charge. In this way some six thousand points have been distributed during the year. The sick man made a good recovery and only one of his associates exhibited any signs of the disease. In this case, the development of a few pustules evidenced the existence of a mild attack of varioloid.

On November 30, a waiter in one of the restaurants which had been visited by the book-canvasser and his friends, was taken sick. He was attended by Dr. E. A. Skaro, who, suspecting the character of the trouble, sent for the commissioner of health. He and his assistants at once pronounced the case smallpox and removed the patient to quarantine. The same proceedure was adopted as in the former instance; a prompt vaccination was made of all persons known to have been exposed and the building was closed and com-

pletely fumigated throughout.

No other cases, even remotely traceable to these, have been discovered. On December 11, however, a man who was tramping his way from the west, along the lines of railway, with the intention of working down to Missouri, found himself, en route, very sick, and leaving the train, near the limits of the city, wandered about the outskirts and in the neighboring suburbs for some time, and was finally carried, by some good Samaritan, to the poor farm. There he was found by Dr. Frank Burton, the physician in charge, who sent for the health commissioner to confirm and act upon the diagnosis of smallpox he had made. This man was similarly removed to the quarantine hospital, the inmates of the poor farm and others exposed were vaccinated, and no ill results have followed. All of these cases have done well, although the last has proved to be the most critical of the series. The department does not anticipate any further spread of the disease from either quarter.

Both of these spores, however, illustrate the readiness with which smallpox, or any other contagious malady, may find entrance to a community. Here are persons, in each case, engaged in a shifting occupation, new-comers to the city, of transient residence and uncertain antecedents, importing a grave disease and continuing their wandering avocations for hours or even days after premonitory symptoms had appeared, and exposing, in the meantime, hundreds of people in their own homes, upon the streets, in public conveyances and in eating houses, to the dangers of infection. While the most active vigilance would not suffice to hinder the operation of these uncertain and uncontrollable events, the most active measures are justified, in the light of them, to stamp out their consequences. A community can better afford to maintain the machinery of a health department at twice the cost which the city of Minneapolis is called upon to sustain, than to permit the successful invasion of its limits by such an epidemic disease.

The statistics of other contagious diseases, which have afflicted the city during the year, are worthy of comment. Measles, which was so widely prevalent in 1888, has almost died out; only 136 cases having been reported to the department, the majority of which appeared in the early months.

Scarlet fever and diphtheria have, on the contrary, increased and have exercised the activities of the service. Their spread has been very general throughout the city; but the third, sixth, seventh and eleventh wards have

been most markedly infected.

A careful study of the course of the contagion of both diseases has led up to the belief that ignorance or disregard of the principles of quarantine has been the primary cause of their increasing prevalence. Acting upon this belief, the department concentrated one-half of its force, some months, ago upon the duty of compelling an observance of its quarantine regulations, and good results have generally followed.

The medical inspectors continued the diagnosis of cases, the placarding of houses and the superintendence of the details of disinfection; but they were

reinforced by a number of health inspectors, assigned to police service, with instructions to patrol quarantined houses, to arrest persons entering or leaving the same without permission, to attend and insure the privacy of funerals, in the event of deaths from contagious disease, and to conduct the fumigation of infected houses, wherever the inmates could not be depended

upon to carry out its details properly themselves.

The quarantine period of scarlet fever was fixed at not less than three weeks and school attendance was prohibited within two weeks of the quarantine release. The school authorities have cordially seconded the department in its efforts to obviate the tendency for the public school to become an avenue of contagion. In some instances the department has been obliged to seek the aid of the courts in enforcing quarantine regulations. The non-report of contagious diseases, the removal of quarantine placards and the needless exposure of minors to contagion, have been the causes of action and, in each case, the offender has been found guilty and has been either fined or reprimanded with a suspended sentence. The department always regrets the necessity for prosecution, but is under compulsion of that necessity to enforce the law.

The mortality which has attended scarlet fever and diphtheria indicates that the prevalence of a disease does not determine the percentage of its fatality. The deaths from scarlet fever have been very few, less than five per cent.. in fact, of the cases reported. Diphtheria, on the other hand, which has increased proportionately less that scarlet fever, has been of more than usually severe grade and shows a fatality of thirty-five per cent.

Among other endemic diseases, typhoid fever has not prevailed to an unusual degree, although the department has secured the report of a larger number of cases than have ever been recorded before. It proposes to continue its endeavor to obtain from physicians reports of the occurrence of this disease, with a view to the discovery and removal of its active causes. Already, in several instances, it has been enabled, in this way, to trace out its origin, usually to infected wells, and to arrest its progress by directing the abandonment of these prejudiced water sources.

Cholera infantum, the scourge of infancy in the heated months, has shown a smaller degree of activity, during 1889, than it has had in Minneapolis

for several years.

Despite the prevalence of diphtheria and scarlet fever, the city, as a whole, has enjoyed an unusually healthful year, and it cannot be doubted that this fact is due, in some degree, to its improved sanitary conditions.

Very naturally, some anxiety prevails, at the present time, concerning the prospect of an epidemic of influenza. The few cases which have already occurred may prove to be the advance guard of the attack. There is no reason to expect that Minneapolis will escape its share of the universal complaint, while the dryness of its atmosphere may be unfavorable to the development of this disease in its severe forms. The known history of past epidemics justifies the belief that it has no fatality of its own, and that when death occurs, immediately subsequent to its attack, it is from the supervention of some complicating disease which some idiosyncracy or susceptibility upon the part of the individual sufferer invites. It may be epidemic in its occurrence, but it is in no sense a contagious disease.

DEATHS.

One of the necessary ultimate consequences of disease is death and, if diseases have been few, it is fair to expect that the mortality of the city has also been small. And the expectation is justified by the facts. Minneapolis has every reason to be satisfied with the death-record of 1889. It has been both actually and relatively smaller than in 1888. For the year ending March 31, 1889, the total of deaths was 2,689. For the year ending December 31, it is 2,273.

In so rapidly growing a city as this it is difficult to form a correct estimate of the population upon which the calculation of a death rate may be based. The department has preferred to err upon the safer side and has made its figures upon the conservative estimate of 200,000, the same number upon which its rate of last year was made. Nevertheless, the mortality rate shows a very marked reduction, a decrease which, by the way, has been progressive for the past three years. In the twelve months ending April, 1887,

it stood at 17 per thousand; in the year closing Λ pril,1888, it fell to 15 per thousand; in the period ending Λ pril, 1889, it reached 13.4 per thousand; in the year which this report brings to an end, it touches its lowest mark, 11.3 per thousand.

It should be observed, also, that this sum-total of death and the rate based upon it, include two items which, in most cities, are not included in these figures, viz.: still-births and premature-births. In St. Paul, for instance, these so-called death-causes are eliminated from the official count, and hence the death-rate falls. In Minneapolis, during 1889, 250 still-births and premature-births have occurred, and if this number be subtracted from the total of deaths, we shall have 2,013, with a death-rate reduced to 10.06 per thousand.

In the pages of the last annual report attention was drawn to a fact which is even more conspicuous in the death tables of this year—the notable discrepancy between the number of deaths (279) certified to by the coroner and the number of deaths by accident or violence, (73) which properly come under his official notice. The total of the death certificates signed by him is thus increased, to a small degree, by the occurrence of deaths from disease in persons who have not been attended by a physician, but to a much larger degree -and it is for this cause that public notice is invited to the fact-by stillbirths and premature births, in remarkable numbers, which have been attended by midwives whose certificates the department cannot recognize and who must needs therefore call upon the coroner for assistance. The phenomenon is of importance because it should instruct the public that infants, delivered by these ignorant and often incompetent women, die, or are born dead, with a frequency which is out of all proportion to necessity and should inspire some form of legislation which would be restrictive of midwife prac-The propriety of such a step is further emphasized by the fact that puerperal diseases, terminating in the death of the mothers so attended, are not uncommonly traceable to these same attendants.

The statistics of death and the classification of death-causes have been further improved during the year and will repay a careful analysis. The items concerning the occupation, nativity, residence and parentage of the deceased have been officially recorded, in order that the death registry of the department may serve the purposes of the eleventh United States census.

In inviting the attention of your honorable body to the statistics which occupy the succeeding pages it is but fair to the department to re-emphasize the apparent relationship between the greatly increased work of the office, the improved sanitary condition of the city, the relative freedom from disease in general and the small death rate of the year.

BURIALS AND DISINTERMENTS.

The rules of the department which govern deaths, burials and disinterments have a medico-legal as well as a sanitary significance. That the cause of death should be promptly reported by the attending physician or the coroner, and that the body of a dead person should not be moved, buried, or otherwise disposed of, unless a permit has been granted upon the basis of the certificate of death, are regulations which protect the public from foul play, as well as from the insanitary consequences of exposure to contagious diseases or of improper burial. That a dead body should not be retained for a longer period than three days unburied is a bar against concealment as well as a sanitary precaution against the prejudice of the living by the dead. That the public should be informed of the place of burial is a guarantee of proper interment in an approved cemetery.

The department, in despite of the obvious necessity for and propriety of these regulations, has met with some trouble in their enforcement and has, in one instance, found it necessary to test its authority over these matters in the courts, where it has been duly confirmed in its position. This decision in its favor has been of the greatest value in determining, indirectly, the powers of the department and of your honorable body to license or forbid the

use of cemeteries within the city limits.

For, in accordance with the action taken April I, Maple Hill cemetery was ordered to be closed and the department has refused to grant permits for burial therein since that time. This step has aroused the opposition of interested parties and efforts have been made to marshal public sentiment in their behalf. The law and the evidence however have been upon the side of

the department and, where these are, public opinion usually follows. It may prove to be desirable to give the east side a suitable cemetery but it should be distinctly beyond the limits of population. Burial places, encompassed by dwelling houses, must be injurious to the public health and their ultimate

removal is merely a question of time.

The department has been scrupulously careful in its enforcement of the law which forbids public funerals, in the event of death from contagious diseases, and which dictates the method of preparing the remains, in such cases, for burial and shipment. It is satisfied that the neglect of such precautions is commonly fruitful of the spread of contagious and infectious diseases.

GENERAL STATISTICS.

A fund of summarized information will be found in the statistical tables, at the close of this report, which cannot be given in these descriptive pages. These tables constitute an epitome of the labors of the department. Their accuracy can be vouched for so far as the knowledge and authorship of the department is responsible for the estimates and figures. This may be said to apply to all the statistics, saving those of births and marriages. The latter being based upon the licenses issued by the clerk of the county, are probably correct. For the record of births the department is dependent upon the office of the city clerk and the conditions, under which the statistics are obtained, are not such as to guarantee their accuracy.

The law under which the collection of these data of births and deaths is delegated to the city clerk is a travesty upon good public policy. The health department, in every city, is the natural repository of all vital statistics. It is the avenue through which reports of births as well as deaths should come. Its machinery is such as to make the collection of the one as easy as the other and it need be at no cost either to the city, the county or the state. Deaths *must* be reported to the department as births *should* be.

But a law exists which determines that in cities of over 100,000 inhabitants this duty shall be removed from the charge of the health officials and placed in the hands of the city clerk, and bestows upon the latter a fee of twenty-five cents, payable from the county treasury, for each birth and death recorded.

There is neither right nor reason in this law. The larger the city the better is its health department equipped for such service, the less will it cost in its performance, and the more desirable is it that all the health interests of the community should be concentrated under the same management.

The payment of a fee for this service is an outrage upon the public purse. The city pays for the blanks upon which the returns are made and for the salary of the clerks who record them. The health department must perforce receive the certificates of death, in order that it may approve and issue burial permits upon them, and it is to the courtesy of this department that the city clerk owes his death records. His returns of death are nothing more nor less than a partial transcript of the certificates of death required by the department from physicians or from the coroner under the health laws. Certificates of birth are sent to him directly by attendant physicians or midwives, or are collected by his clerks in a general canvass of the city. They could be obtained, without any other cost than the city now has to meet for stationery and clerk-hire, by the department of health and would form, in its hands, a valuable and reliable feature of our vital statistics. If fees are paid to any one it should be to the physicians who make report of these births and deaths. Theirs is a gratuitous service and the only one which is a tax upon personal effort and convenience. And, after all, when the returns have been collected, recorded and reported to the city clerk they are lacking in the most vital point of accuracy, and hence in their essential value. For this superfluous law does not require him to record or furnish the place of birth of the new-born babe or the place of death of the deceased. And it may be assumed that he does not over-step the requirements of the law. In consequence, there is no possible check upon the correctness of the returns and nothing to prevent an unscrupulous officer from multiplying his statistics at pleasure, so far as the births are concerned. And, pre-supposing the honesty of the official and the integrity of his purpose to turn over to the city treasury these perquisites, there is no good reason why the county should be taxed for the benefit of the municipal purse.

An effort was made, prior to the passage of the special law re-organizing

the health department to incorporate the collection of all these statistics among the duties of the office, but under pressure of the influence of persons interested in maintaining the perquisites of the city clerk's office, the item was dropped from the bill.

Appended to the health statistics proper is the annual record of meteorological observations made by Wm. Cheeney, Esq., voluntary observer of the

United States signal service.

During the year the foundation has been broadened for the upbuilding of a library of comparative statistics by the gradual collection of monthly and annual reports from all the large cities of the world.

EXPENSES.

Some criticism of the department has been called forth by the fact that its appropriation for the year just closed has been overrun. The department would courteously reply that it has no apology to offer for itself. The appropriations made have never been sufficient for the needs of the service. The comptroller has annually requested an estimate of the expenses to be met during the ensuing year; and, unlike some other branches of the city government, the department has based its demands upon actual necessities and has found it impossible to make any suitable allowance for those more or less expensive emergencies which, like an epidemic of smallpox, may and often do arise. In submitting its estimates it has emphasized the barely essential features of its figures, but, in despite of this fact and without consultation with or further reference to the department, the gross sum has been arbitrarily cut down. In consequence it has been impossible to live strictly within the limits of the reduced appropriation.

To illustrate, in 1888 the department made up its estimate upon a basis of actual expenditure and asked for \$20,000. The appropriation was granted for \$17,000, and the actual expenses of the office have reached a cost of \$18,-316, while the unestimated cost of quarantining contagious diseases has involved a further outlay of \$2,194, as a reference to the table of expenses of the department will show. A necessary growth of the department must keep pace with the growth of the city, and, in recognition of this principle, an estimate of \$25,000 was submitted for 1890, and has been leveled, as before,

without ceremony, to \$20,000.

The department must be inevitably hampered by these financial restrictions. Good work along new lines must be discouraged. The occurrence of an epidemic, or of any other unlookedfor emergency, must seriously embarrass

its action,

Either of the amounts cited is small for the support of the sanitary service of a city of this extent, and money could not be expended for the public purse to better advantage, or with more substantial returns in municipal prosperity, than that which is devoted to the interests which subserve the public health. The value of the investment has been illustrated by the health history of Minneapolis during the past year, which these pages record. While we cannot measure the part which the department of health has played by its active improvement of the sanitary condition of the city, or by its limitation of the spread of contagious disease, in lowering the death-rate, it has unquestionably had its share, if prevention avails anything, in bringing about that result. And that result has an economic worth. A reduction of the rate of mortality by two in the thousand means the saving to the city of Minneapolis of 400 lives. The English statistican, Dr. Farr, estimates that the cheapest of English lives -that of the agricultural laborer-is worth at a mean valuation \$750 to the community, and if we accept this figure, which is far below the average worth of American life, we have a saving of lives to the state and to the city which may be estimated at \$300,000 in economic value. If we should credit to the officers of the department only ten per cent. of this saving, we should far more than cover the cost of its annual maintenance. The consideration puts the financial support of the department in a new light and is worthy of a serious thought.

S. S. KILVINGTON, M. D.,

Commissioner of Health.

HEALTH DEPARTMENT EXPENSES, Salaries			
		\$14.004.76	
Printing and stationery		994.88	
Hardware Advertising Repairs at crematory Telephone service, II months Removal of dead animals per contract, 1 month.		64.50 18.00	
Repairs at crematory		102.92	
Removal of dead animals per contract, 1 month		99.00 358.33	
Seavenger service.		548.50	
Subscription to sanitary papers Rent of dump.		$\frac{19.00}{480.00}$	
Rent of dump		180.00	
Rent of crematory. Livery. Veterinary surgeon's services Analysis of water Stencils.		28.50	
Veterinary surgeon's services		182.75 14.00	
Stencils		13.75	
Stencils. Repairs to dump. Law books Maps for annual reports. Incidentals Postage. Expenses of two investigating committees to Chicago Expenses of Dr. S. S. Kilvington to New York, to A. P. H. A. Telegrams. Railway fore of patients.		110.16	
Maps for annual reports		$\frac{10.00}{75.00}$	
Incidentals		13.69	
Postage Expenses of two investigating committees to Chicago		55.74 336.50	
Expenses of Dr. S. S. Kilvington to New York, to A. P. H.	\	89.00	
Telegrams		14.73	
Express on books and newspapers		$\begin{array}{c} 1.50 \\ 6.33 \end{array}$	
Railway fare of patients. Express on books and newspapers. Fuel for crematory.		794.55	
			\$18,316.11
VACCINATION, MAINTAINING QUARANTINE AND	QUAR-		
ANTINE HOSPITAL EXPENSES.			
Professional services to small pox patients		-\$345.00	
Clothing destroyed. Dry Goods and clothing.		55.25 172.15	
Vaccine points. Fuel		188.09	
Fuel Drugs and disinfectants		$264.80 \\ 350.84$	
Mont		62.87	
Line Live stock, hogs		11.80	
Crosonics		$\frac{10.00}{269.73}$	
Horseshoeing Blacksmith bills		31.70	
Blacksmith bills Nursing sick		$\frac{9.69}{50.00}$	
Furniture Laundry		48.85	
Laundry		6.16 131.91	
Harness and repairs.		26.50	
Rubber goods		14.85	
Filling ice house		58.95	
Filling ice house		58.95 32.00 15.11	
Laundry Feed Harness and repairs. Rubber goods. Repairs and ambulance. Filling ice house. Garden seeds. Combination fence.		58.95 32.00 15.11 38.00	
Repairs and ambutanes. Filling ice house. Garden seeds. Combination fence. Fruit.		58.95 32.00 15.11	2,194.45
Repars and ambusines. Filling ice house. Garden seeds. Combination fence. Fruit.		58.95 32.00 15.11 38.00	
Fruit		58.95 32.00 15.11 38.00 .75	2,194.45 \$20,510.56
Repairs and ambulance. Frilling ice house. Garden seeds. Combination fence. Fruit. Table of Nuisance Complaints for the Year End	ing Decem	58.95 32.00 15.11 38.00 .75	
Fruit	ing Decem	58.95 32.00 15.11 38.00 .75 ———————————————————————————————————	\$20,510.56
Fruit	ing Decem	58.95 32.00 15.11 38.00 .75 ———————————————————————————————————	\$20,510.56
Table of Nuisance Complaints for the Year End	ing Decem	58.95 32.00 15.11 38.00 .75 ———————————————————————————————————	\$20,510.56
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Table of Nuisance Complaints for the Year End	ing Decem	58.95 32.00 15.11 38.00 .75 ———————————————————————————————————	\$20,510.56
Table of Nuisance Complaints for the Year End		58.95 32.00 15.11 38.00 .75 	\$20,510.56
Table of Nuisance Complaints for the Year End WARD.	ing Decem	58.95 32.00 15.11 38.00 .75 ———————————————————————————————————	\$20,510.56
Table of Nuisance Complaints for the Year End WARD.	Complaints for year ending year ending Dec. 31, 1889.	58.95 32.00 15.111 38.00 .75 Der 31, 1889.	\$20,510.56 Hockease o a c c c c c c c c c c c c c c c c c c
Table of Nuisance Complaints for the Year End WARD. One. Two. Three.	Complaints for Complaints for A 1820. 331 1820. 331 1800. 331 1,003	Complaints	\$20,510.56 100,510.56 100,510.56 178,129 178,129 189,510.56
Table of Nuisance Complaints for the Year End WARD. One. Two. Three. Four	(omplaints for X-231 1877 1,003 1,003 698	Oer 31, 1889. Oer 31, 1889. See 31, 1889. See 31, 1889.	\$20,510.56 100,510.56 100,510.56 100,510.56 100,510.56 100,510.56 100,510.56
Table of Nuisance Complaints for the Year End WARD. One. Two. Three Four Five. Six	(.comblaints for December 1.0mblaints for N e a r. ending N e a r. 1.86. 31. 1.86. 1.075 608 412	58,95 32,00 38,00 .75 	178 129 815 779 446-326
Table of Nuisance Complaints for the Year End WARD. One. Two. Three. Four Five. Six Seven	(omplaints for X-231 1877 1,003 1,003 698	58.95 32.00 38.00 .75 .75 .75 .75 .75 .75 .75 .75 .75 .75	\$20,510.56 I 0 A O 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Table of Nuisance Complaints for the Year End WARD. One. Two. Three Four Five Six Seven Eight Nine	ing Decemble to the control of the c	Comblaints Comblaints Comblaints Comblaints Acad. 1889. 100 Acad. 1889. 538 588 588 588 686 252 686 158 117 127	\$20,510.56
Table of Nuisance Complaints for the Year End WARD. One. Two. Three. Four Five. Six Seven Eight Nime Ten	Complaints for X of	58.95 32.00 38.00 .75 Der 31, 1889. 101 38.00 .75 Der 31, 1889. 38.00 38.00 1888. 202 202 203 204 205 205 205 205 205 205 205 205	\$20,510.56 20,510.56
Table of Nuisance Complaints for the Year End WARD. One. Two. Three Four Five Six Seven Eight Nine	ing December 1	58.95 32.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 54.00 55.00 55.00 56.00 57	\$20,510.56 10 0 0 9 8 8 8 8 129 8 15 779 1446 326 4410 381 290 666 364 111
Table of Nuisance Complaints for the Year End WARD. One. Two. Three Four Five Six Seven Eight Nine Ten Eleven	(combination of the combination	58,95 32,00 38,00 .75 .75 .75 .75 .75 .75 .75 .75 .75 .75	\$20,510.56 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Table of Nuisance Complaints for the Year End WARD. One. Two. Three. Four Five. Six Seven Eight Nine Ten Eleven Twelve	ing December 1	58.95 32.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 53.00 54.00 55.00 55.00 56.00 57	\$20,510.56 10 0 0 9 8 8 8 8 129 8 15 779 1446 326 4410 381 290 666 364 111

Table of Written Notices to Abate Nuisances for the Year Ending December 31, 1880.

WARD.	Written notices issued for 1889	Written notices issued for 1888	Increase over
One	92 72 231 295 255 158 171 212 93 15 212 5	27 12 135 42 36 99 63 41 60 14 89 4	65 60 96 253 219 59 108 171 33 1 123 1
Total	1,814	611	1,170

^{*}Itemized Table of Written Notices Issued During the Year Ending December 31, 1889, Compared with 1888.

To CLEAN	Ward No.													1889.	1888.
TO CLEAN.	1	2	3	4	5	6	7	8	9	10	11	12	13	Total	Total
Privy vaults	64	51	170	186	197	132	151	136	64	10	157	4	2	1,324	355
Cesspools	5	3	48	34	29	30	5	12	2		22			190	58
Garbage, manure, refuse.	47	41	138	178	170	105	99	143	50	11	140	2	2	1,126	429

Total number of vaults cleaned by city scavengers, 1889, 5,756; 1888, 2,870. Total number of cesspools cleaned by city scavengers, 1889, 2,158; 1888, 1,080.

Table of House Inspections for the Year Ending December 31, 1889, Compared with 1888.

Ward.	Number of houses, 1889.	Number of houses. 1888.	Decrease over 1889.	Inc'ase over 1888.
First. Second Third. Fourth Fifth. Sixth Seventh Eighth. Ninth. Tenth Eleventh Therefore Twelfth Thirteenth.	28 64 29 1,189 141 21 183 42 61 5 61 7	9 43 65 777 46 34 76 56 107 10 70 14 6	36 13 14 5 9 7	19 21 1.112 95 107
Total	1,833	613	134	1,354

Total for 1888 are from April 1, 1888, to March 1, 1889.

^{*}Totals in this table do not correspond with the generalized table of written notices for the reason that a single notice often does duty for two or more items of nuisance.

Summary of Contagious Diseases Among Animals for the Year Ending December 31, 1889.

	DISE	ASES.
	Glanders.	Tuberculo- sis, etc.
Number of horses quarantined. Number of horses killed Number of horses released Number of mules quarantined Number of mules killed Number of steers killed	40 24 14 1	21

Table Showing Number of Animals and Garbage Removed by City Scavengers During the Year Ending December 31, 1889.

No. of	? horses	469
	mules	65
	cows and calves	
	hogs	2
**	dogs, cats, etc	1,599
	Total	
No. 01	tons of garbage	16

Table of Loads of Garbage, Night Soil, etc., Dumped at City Dumps During the Year Ending December 31, 1889.

No. of loads of garbage	108,924 9,703
Total	118,627
Water connections made during the year.	

Table Showing Number of Animals Inspected by Meat Inspector During the Year Ending December 31, 1889.

	~ 0.	01, 2000	
		*******************************	49
Veal calves	 		45!
Sheep	 		6,761
Hogs	 		90
That a I			10 400

Contagious Diseases, by Wards, in Each Month from January 1 to December 31, 1889.

-														
Ward No.	Disease.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total, 1889.
1{	Diphtheria Scarlet fever Measles Typhoid fever	5 3 1	1 1	5	1 1 1 1	3 1 1	1 1 1	1	3 1 2	1 8	3 2 	3 1 1	11 4 3 2	41 14 7 29
2	Diphtheria Scarlet fever Measles	1 3 	6 5 3	2 2 1	2 2 	3 1	1 7 1 4	2 7 1	1 2 	1 4 1	1 4 1	2 7 1	3 1 2	22 49 7 11
3	Diphtheria Scarlet fever. Measles Typhoid fever	8 6	11 2 3	3 5 	10 7 4 1	13 6 	11 4 5 7	7 9 13	8 10 	13 17	23 6 6	15 8 1 10	6 11 	108 94 32 58
4	Diphtheria Scarlet fever. Measles. Typhoid fever.	2 8 1	7 1	2 14 	3 22	4 3 4	6 6 1	2 1 	1 6 4	<u>.</u> 2	8 5 8	12 1 3	 5 	36 71 6 32
5	Smallpox Diphtheria Scarlet fever. Measles. Typhoid fever	6 8 1 4	5 10	1 13 2 4	2 5 1	3 6 3 1	5 11 2 2	4 4 2 5	1 3 	7	2 7 12	3 3 12 5	13 6	32 99 11 53
6	Smallpox. Diphtheria Scarlet fever. Measles. Typhoid fever	1 2 6 	5 6 1 	7 2	10 6 4	6 4 1	6 4	4 4 1 3	8 1 19	3 10 17	3 16 	7 10 5	7 11 1 1	6 65 82 8 64
7	Smallpox Diphtheria Scarlet fever Measles. Typhoid fever	1 10 4	5 10 3 2 1	11 2 1 1	3 4 3	3 9	6 6	1 9 3 2	8 13 1 6	12 8 1 3	11 11 11 8	9 14 1	5 4	89 87 11 23
8	Diphtheria Scarlet fever. Measles. Typhoid fever.	7 9 	5 7 3	4 14 4 4	1 9 7 1	2 10 6 1	5 4 1	2 2 	3 3	3 2 1 11	1 2 2	3 3 	5 6 5	41 71 22 42
9	Diphtheria Scarlet fever Measles Typhoid fever	2 5	3	4	 1	2 7 1	 6 	5 4 1	 3 6	5 	4 2 5	5 3	3 2	37 36 2 24
10	DiphtheriaScarlet feverMeasles. Typhoid fever		1	1 1 	$\frac{1}{2}$ 1		10	4	1 5			3 1	4	18 3 12 13
11	Smallpox Diphtheria. Scarlet fever. Measles. Typhoid fever.	4 8 2 4	7 2	8 7	2 1 3 1	 8 5 1 3	 4 11 9 1	2 4 3 3	6 14 9	 7	12 18 26	13 3 8	3 10 	73 90 18 73
12	Diphtheria Scarlet fever. Measles. Typhoid fever.		· · · · · · · · · · · · · · · · · · ·			1			1		1		···;	12 12
13	Diphtheria	2						1		2	7	2	3	8 12

Table of Contagious and Infectious Diseases by Wards for the Year Ending December 31, 1889, Compared with 1888.

Ward.	Diptheria.	Searlet fever.	Measles.	Typhoid fever.	Small pox.	Total 1889.	Total 1888.
First Second. Third Fourth Fifth Sixth Seventh Eighth. Ninth Tenth Eleventh Twelfth Thirteenth	41 22 108 36 32 66 89 41 37 17 73 1	14 49 94 73 99 82 87 71 36 3 90 10	77 322 6 111 8 111 222 2 122 18	17 11 58 32 53 64 23 42 24 13 73	3 6 6	79 82 293 147 198 226 216 176 99 45 255 226	68 84 234 1777 231 181 201 171 132 109 198 23 26
Totals for 1889	571 430	720 455	136 769	411 168	16 13	1,854	1,835

All totals for 1888 are from April 1, 1888, to March 31, 1889.

Table of Deaths from Contagious and Infectious Diseases for the Year Ending December 31, 1889, Compared with 1888.

WARD.	Diptheria.	Scarlet fever.	Measles.	Typhoid fever.	Total 1889.	Total 1888.	Decrease from 1888
First . Second	17 5 42 14 2 20 20 9 23 9 36 2 3	1 5 3 1 4 6 4 1 1 5 1	1 1 1	7 5 16 10 21 12 6 5 4 2 20	25 11 64 27 25 36 32 18 29 12 61 3	31 14 54 23 27 46 30 16 38 8 59 4	
Totals for 1889. Totals for 1888.	202 159	34 24	3 36	108 134	347	358	···ii

Totals for 1888 are from April 1, 1888, to March 31, 1889.

Registry of Deaths of the City of Minneapolis for the Year Ending December 31, 1889.

	<u>v.</u>	0	1335					Acr	,			
	eath		EX.			1	1 -	AGE		1 -		
CAUSES OF DEATH.	Number of deaths	Male.	Female.	Under 1 year.	5 years.	o 10 years.	to 20 years.	to 40 years.	to 60 years.	to 80 years.	er 80 years.	Over 100 yrs.
	Nu	Ma	Fe	Un	1 to	5 to]	10 t	30 t	40 t	60 t	Over	Ã
CLASSIFICATION:	1.22			-	400							
I. General diseases	1,287 906 80	648 491 64	415		183 124 5	78 24 4	84 34 9	272 133 35	119	86	21	
CLASS I—ORDER 1. Preventable Diseases—												
Typhoid fever	108				• 1	6	22					
DiphtheriaMeasles	202	1	2	- 1	1	1	16					
Scarlet fever. Whooping cough.	34	5	4	3 6	19		1					
Cerepro-spinal meningrus	50 112	25 58	25	15	14		5			1		
Cholera infantum	112	98		97	15							
(b) Bottle fed	10		3	2				$\begin{bmatrix} \cdots \\ 5 \end{bmatrix}$				
· Pvæmia	2	2					2					
Puerperal feverperitonitis	8		8					8 8				
pyæmia	1 13		1				• • • •	13				
pyæmia septicæmia. Abortion	3		3					3				
Hydrophobla	1 2	1	i					1				
Remittent fever	181	83	98	4	4 7	 2 4	31	99	34	7		
Other tuberculoses	55	31	24			4	7	20	34	1		
General tuberculosis. 27 Tubercular meningitis 14 Tabes mesenterica 10 Potts' disease. 3 Hip joint disease. 1												
Potts' disease 3												
ETVSIDEIAS	····i0	6	4	4				···· 5	i			
Malignant carbuncle Necrosis of femur	1 1	1						i		·· i		
Total	814	390	424	156	180	78	84	250	···- 56	<u>10</u>		
Order 2.		300		100	100	•						
Constitutional Diseases—	1974.3	60	40	40					000			
Cancer	73		40	16	1			7	30		1	
of uterus 9 of breast 6 of larynx 1												
of larynx1												
of liver 4 of intestines 3										• • • •	::::	
OI OVAPV 1												
of pancreas												
of rectum. 4												
of esophagus 1												
of kidney 1 of œsophagus 1 of face 1 of neek 1												
unknown	3		9									
Sarcoma	2 7	1	2					1				
Acute rheumatism Leucocythemia	7 4	6	1 4					3		3		
Marasmus	79	40		76	2						1	
AlcoholismPernicious anæmia	6 3	5 2	1					4	1	5		
Hereditary syphilis	5 4	2	3	5				3				
Pernicious anæmia. Hereditary syphilis. Secondary syphilis. Purpura rheumatica.	1	1						1	2			
Caronic lead poisoning	2	2										
Total	189	93	96	97	3			22	40	25	2	

Registry of Deaths of the City of Minneapolis-Continued.

		1		1								
	aths.	Sı	EX.					AGE				
Causes of Death.	Number of deaths	Male.	Female.	Under 1 year.	1 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 40 years.	40 to 60 years.	60 to 80 years.	Over 80 years.	Over 100 yrs.
ORDER 5. Miscellaneous— Still-birth. Premature birth. Old age.	160 90 34		66 37 16	160 90						18	15	····i
Total	284	165	119	250						18	15	1
CLASS II—ORDER I. Vervous System— Cerebral congestion. Convulsions Trismus nascentium Tetanus Hydrocephalus Meningitis Paralysis. General spinal paralysis. Infantile paralysis Hemiplegia. Locomotor ataxia Acute myelitis. Cerebral tumor. Cerebral tumor. Cerebral abscess. Cerebral softening Cerebellar abscess. Spina bifida Hydrorachis Sunstroke. Epilepsy.	100 577 66 33 111 566 11 22 21 33 11 31 11 11	26 4 38 8 31 4 1 2 2 2 1 3 3 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.2	34 1 4 1	1 3 19 i	1 1 2	1	2 2 1	1 2 1	1	3	
Total		99	76	106	35	 5	3		 9	4	4	
Order 2. Respiratory System— Acute pneumonia Capillary bronchitis Pleurisy Empyema Emphysema Croup Atelectasis Oedema of lungs. Gangrene of lungs. Oedema of glottis Chronic bronchitis Pneumo-hydrothorax Asphyxia neonatorum	999 162 33 32 15 1 1 1 5 2	611 855 22 11 11 11 1 1 1	38 77 1 1 2 2 4 1 1 3	15	9 49 1	5 3 1	6		28 1 1 1	17 1 1 1	5	
Total	298	168	130	123	61	10	8	34	34	22	6	
ORDER 3. Circulatory System— Valvular heart disease. Fatty degeneration of heart. Apoplexy Cyanosis. Umbilical hemorrhage. Spinal hemorrhage. Abdominal aneurism Endocarditis. Pericarditis. General atheroma. Senile gangrene Embolism Hydro-pericardium.	64 11 22 38 3 1 5 2 1 1 2 2	35 6 13 23 1 1 1	9 15 3 5 1 1			i	1	18 2 5 1 1 1		2 1 1 1	3	
Senile gangrene Embolism Hydro-pericardium Total.	152	····i	1 1					2		1		

Registry of Deaths of the City of Minneapolis Continued.

												===
	ths.	Si	ex.					AGE.				
Causes of Death.	Number of deaths	Male.	Female.	Under 1 year.	1 to 5 years.	5 to 10 years.	10 to 20 years.	20 to 40 years.	40 to 60 years.	60 to 80 years.	Over 80 years.	Over 100 yrs,
ORDER 4.									_			
Digestive System— Gastro-enteritis	124	68	56		100,41				4		3	
Gastric ulcer	42 42 2	20	222	i	2	3	 5	1	.5	3	1	
Dysentery	9 4 1 1	4 1 1	3	1			i	 1	2 1 	1		
Strangulated hernia	2	2	·····i		····i			1		1		
TotalORDER 5.	190	98	92	91		4	7	36	15	11	4	
Glandular System— Hepatitis	3 12 2 8	1 5	2 ~ 2				 i	3	1 5 1	1 4	1	
Diabetes mellitus Cholæmia Atrophy of liver Splenitis.	8 2 2 1	4 2 2 1		i	1			3	₂			
TotalORDER 6.	30	15		1	1		1	6	14	6	1	
Genito-Urinary System— Uremia, Bright's disease Nephritis, Cystitis Puerperal mania Convulsions.	28 15	2 15 8 3	13		4	1 1	$\begin{array}{c}1\\6\\1\end{array}$		 9 1	6 2	1	
" thrombosis	1 3 1		3				1	1 2 1				
Extra uterine pregnancy. Vomiting of pregnancy Ovarian tumor. Pelvic abseess Hematocele.	1 1 3 1		1 1 3 1				1	1 2 1	i 	1		
Total	61	28	33	1	4	2		 18 7	11	13		
Fracture of spine	10 4 1 1 1	1 1						1 1 1				
Crushing of chest Hemorrhage from injury Septicæmia from injury Shock from injury Gangrene from injury Laceration of liver Fracture of pelvis Shock from burns Shock from operation. Suffocation Drowning. Hanging (execution)	13 1 1 1	13 1 1 1				i	i	7 1 1	3	1		
Shock from burns Shock from operation Suffocation Drowning.	8 3 3 12		4 3 1 2	1 2	 	1	1 4	5	1			
Hanging (execution) Hanging (suicide) Gunshot (suicide) Poisoning (suicide) Hemorrhage (suicide).	2 1 7 4 1	 5 3 1					1 1	1 2 1	3 3 1	1		
Total	80	64	16	3	5	4	9	35	19			
Total deaths for year ending December 31, 1889	2,273	1,203	1,070	871	312	106	127	440	234	144	38	1
Total deaths for year 1888	2,689	1,460	1,229	1057	431	108	121	521	251	144	56	

Table of Deaths by Months in Each Ward for the Year Ending December 31, 1889, Compared with 1888.

WARD.	January.	February.	March.	April.	May	June.	July.	August.	September.	October.	November.	December.	Total 1889.	Total 1888.
First Second.	19 9	15 3	15 20	10	9	7	20	14	11	16	9	16	161	211
Third	23	23	25	14 28	26	34	34	27	10 25	6 35	27	5 27	100 334	136 388
Fourth	8	20	21	19	13	10	22	15	10	21	- 11	22	194	210
Fifth	19	19	32	16	17	15	25	21	19	22	23	20	248	283
Sixth	25	23 13	16 20	24 16	19	27 13	28	22 16	27	20	18	22	271	336
SeventhEighth.	14 16	11	17	11	11	13	24	11	13 12	16	21 15	13	195 154	251 156
Ninth.	20	13	12	18	12	8	21	15	18	19	13	14	183	222
Tenth	6	1	3	7	2	7	9	5	8	2	6	9	65	55
Eleventh	19	11	31	18	30	27	18	20	23	40	22	19	278	329
Twelfth		1	4	2	1	1	7	6	2 5		5	2	31	50
Thirteenth	9	-3	6	5	5	ā	9	+	5.	3	6	.5	59	62
Total	187	158	:):):)	188	165	174	247	180	183	207	183	179	2,273	2,689

Table of Deaths in Public Institutions for the Year Ending December 31, 1889, Compared with 1888.

	1889.	1888.
City Hospital	53	77
St. Barnabas Hospital.	19	28
Homoepathic Hospital	6	5
Bethany Home	25	31
St. Anthony Hospital	7	6
Soldiers' Home	11	7
Northwestern Hospital		14
Maternity Hospital	5	10
Deaconesses Home	1	2
Sheltering Arms		1
St. Mary's Hospital	10	
	4.40	404
Total	143	181

Table of Deaths by Months and of the Annual Death Rate for the Past Thirteen Years.

YEAR.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.	Estimated population.	Annual d'th rate per 1000
1877	31	30	45	26	30	25	48	46	49	35	32	28	425	35,760	11.8
1873	31	30	27	34 57	37	26	55	59	44	35 52	39	31	448	36,432	12.2
1879	52	52	40		64	50	96	84	66	67	55	59	727	38,860	18.6
1880	54	55	58	38	50	42	94	83	79		60	52	732	46,341	15.7
1881	68	61	75	83	92	91	136	121	139	124	133	114	1,237	64,666	19.1
1882	106	107	141	138	142	143	156	216	176	158	158	56	1,697	69,660	24.3
1883	140	108	124	122	126	102	168	205	161	145	139	137	1,677	86,784	19.3
1884	128	118	139	103	134	118	272	226	179	139	103	125	1,784	96,062	18.5
1885	118	142	98	120	129	52	254	221	131	122	116	121	1,624	118,599	13.7
1886	125	122	160	169	191	133	218	190	182	260	267	196	2,213	132,750	16.6
1887	155	164	155	184	197	228	290	229	224	206	172	187	2.391	177,743	13.4
1888	220	254	283	258	265	201	262	205	237	240	184	180	2.879	200,000	14.0
1889	187	158	222	188	165	174	247	180	183	207	183	179	2,273	200,000	11.3
									1			1			

Table of Burials in the Cemeteries of the City for the Year Ending December 31, 1889, Compared with 1888.

position and a	1889.	1888.
Lakewood Cemetery	495	504
Layman's Cemetery	766	866
Maple Hill Cemetery	109	307
St. Mary's Cemetery		156
St. Anthony Cemetery	294	361
City Graveyard	167	228
Soldiers' Home	1	6
Jewish Cemetery	35	10
Crystal Lake Cemetery	62	45
Total	2,120	2,483

Nativitives as Shown by Mortuary Tables, 1889, as Compared with 1888.

	1889.	1888.
Austria	3	10
Belgium	1	1
Canada	62	82
Denmark	13	16
England	26	26
France	2	2
Germany	75	88
Ireland	49	58
Minnesota		1,538
Norway and Sweden	282	287
	12	8
Russia		17
Scotland	12	5
Switzerland	122	
United States (other than Minnesota)	455	509
Unknown	26	42
-		
Total	2,273	2,689
	1889.	1888.
Number of deaths certified to by the coroner during the year	286	265
Number of bodies shipped from the city for interment	283	. 349
Number of bodies received for interment from elsewhere	117	143

Table of Births for the Year Ending December 31, 1889.

Month.	Total births.	Still births.	Premature births.
anuary	260	16	6 3
ebruary	293	10	
larch	316	19	
prilayune	290	17	9
	251	8	13
	248	20	5
uly. ugust. eptember etober.		8 10 15	5 6 11 8
ovember	197	10 16	8
ecember.	249		5

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Meterological Record

For the year ending December 31, 1889, from daily observations taken at the house at 7 a.m. and 2 and 9 p. m., at Minneapolis, Minnesota, by Wm. Cheney. Voluntary Observer, Signal Service, U. S. A., and prepared for the use of the department of health.

Мохти.	Monthly mean barometer corrected for temperature and elevation.	Monthly mean tem- perature.	Maximum tempera- ture.	Minimum tempera-	Monthly range of temperature.	Water deposit, rain and melted snow in inches.	Relative humidity in 100ths, 100 being complete saturation.	Prevailing winds.	Inches of snow.
January	29.929	18.13	40 47	*12	52 73	1.035	.70	NW NW	714
February	30,068 29,939	10.45 34.87	63	*26 17	46	1.363 1.070	.62	NW	131/8
April	29,883	48,35	74	28	46	1,530	.56	NW	0
May	29.811	55,93	81	38	43	3,060	.58	NW	0
June	29,818	65.11	90	45	45	1.530	.67	S&SE	0
July	29,790	70.97	99	56	43	3.160	.70	SE	ő
August	29,862	70.24	93	55	38	2.390	.67	S&SE	ő
September	29.823	58.19	91	37	54	0.820	.69	SE	0
October	30,039	43.78	7.5	25	50	0.060	.68	SE	0
November	30,010	28,25	54	*5	59	1.082	.72	NW	858
December	29.904	27.53	44	*8	52	1,260	.73	SE	934
Sums						18.360	-		4314
Means	29,903	44.32			50		.66		

*Below zero.

Maximum temperature for the year, July 7. 99.00 Minimum temperature of the year, February 23. *26,00 Range of the year 125.00 Greatest range of thermometer in one day, February 20. 41.00	
Minimum temperature of the year, February 23. *26.00 Range of the year	
Greatest range of thermometer in one day, February 20 41.00	
Least range of thermometer in one day, March 13 and August 7 1.00	
The warmest day was July 7, its mean temperature 87.25	
The coldest day was February 22, its mean temperature *16.75	
The highest barometer was on February 23	
The lowest barometer was on January 16	
Range of barometer. 1.968	
Highest daily mean relative humidity of the atmosphere, January 15	
Lowest daily mean relative humidity of atmosphere, May 2	
Average yearly mean temperature for 24 years	
Average yearly water deposit for 23 years in inches	3

*Below zero.

It will be seen by the above that the year 1889 was a little more than two degrees warmer than the average for twenty-four years, and that the water deposit for the year 1889 was ten and one-half inches less than the average yearly water deposit of twenty-three years.

WM. CHENEY, Voluntary Observer, Signal Service U. S. A.

Chapter 413 Special Laws 1889.

AN ACT relating to the re-organization of the health department and the preservation of the public health of the city of Minneapolis, Minnesota.

Be it Enacted by the Legislature of the State of Minnesota:

There is hereby established an executive department in the municipal government of the City of Minneapolis, Minnesota, which will be known as the department of health, and shall embrace the mayor, the committee of the city council on health and hospitals, and the commissioner of health, and such other assistants and employes as are hereinafter

The executive officer of said department shall be called the commissioner of health of the city of Minneapolis and must be a competent physician of regular practice in said city. Said commissioner shall have the management and control of all matters pertaining to the public health in said city under the supervision of the department of health. Said commissioner, before entering upon the duties of his office, shall execute a bond to the city of Minneapolis, Minnesota, in the sum of three thousand dollars (\$3,000) with such sureties as the city council shall approve, conditioned for the faithful performance of the duties of said office.

Said department of health shall have the power to remove any subordinate officer, in-spector or employe of said department of health at their pleasure, subject however, to the approval of the city council. And all orders and directions emanating from said de-partment of health shall be issued in the name of said commissioner. The said commissioner of health shall give to the mayor or other city authorities all

such professional advice and information as they may require with a view to the preservation of the public health; and whenever he shall hear of the existence of any malignant, contagious or pestilential disease, he shall investigate the same, or cause it to be investi-

gated and adopt proper measures to arrest its progress.

It shall be the duty of the commissioner of health to enforce all laws of the state and ordinances of the city of Minneapolis relating to the sanitary regulations of the city, and to cause all nuisances to be abated with all reasonable promptness. And for the purpose of carrying out the foregoing requirements he, or his subordinates, shall be permitted, at all reasonable times, to enter into any house, store, stable or other building, and to cause the opening of the floor, if he should deem it necessary, in order to have a thorough examination of cellars, vaults, sinks or drains, and to cause all privies to be cleaned and kept in good condition, and to cause all dead animals, or nauseous or unwholesome things or substances to be buried or removed or disposed of as the commissioner of health may direct.

In order to carry out the provisions of the foregoing section, it shall be the duty of the

In order to carry out the provisions of the foregoing section, it shall be the duty of the commissioner of health to serve a notice upon the owner, occupant or agent of any lot, building or premises, in or upon which any nuisance may be found, or the owner or cause of any such nuisance, requiring them to abate the same in such manner as he may prescribe, within reasonable time. Provided, that it shall not be necessary in any case for the commissioner to specify in his notice the manner in which any nuisance shall be abated, unless he shall deem it advisable to do so, and such notice may be given or served by any officer who may be directed or deputed to give or make the same; and if such owner, occupant or agent shall neglect or refuse to comply with the requirements of such orders within the time specified, they shall be subject to a penalty hereinafter provided; and it shall be the duty of the said officer to proceed at once, upon the expiration of the time specified in such notice, to cause such nuisance to be abated. And provided, further, that whenever the owner, occupant or agent of premises, in or upon which any nuisance that whenever the owner, occupant or agent of premises, in or upon which any nuisance may be found, is unknown or cannot be found, the said commissioner shall proceed to abate the same without notice; and in either case the expense of such abatement shall be collected from the person or persons who may have created, continued and suffered such nuisance to exist.

Any expense incurred by the health department in enforcing the provisions of the

Any expense incurred by the health department in enforcing the provisions of the above sections, shall be recovered in an action of debt, to be brought in the name of the people of the state of Minnesota against the party offending.

It shall be the further duty of the commissioner of health to visit and examine, or cause to be visited and examined, all sick persons who shall be reported to him as laboring or supposed to be laboring, under any yellow or ship fever, smallpox, cholera, or any infectious or pestilential disease, and cause all such infected persons to be removed to the cholera, smallpox or other hospitals, or to such other safe and proper places as he may deem proper, not exceeding three miles from said city, and cause them to be provided with suitable nurses and medical attendance at their own expense, if they are able to pay for the same, if not then at the expense of the city.

It shall be the further duty of the commissioner of health to cause a notice, written or printed in large letters, to be placed upon or near any house in which any person may be affected or sick with small pox, scarlet fever, or any infectious, pestilential or epidemic disease, upon which will be written or printed the name of such disease and an order forbidding any person or persons, excepting the medical attendant and spiritual advisors, from going to or leaving said premises, and if any person or persons shall deface, alter, mutilate, destroy or tear down such notice, without permission of the commissioner of health, or shall otherwise fail to comply with this act, such person or persons shall be subject to the penalty hereinafter provided; the occupant of any house upon which such notice shall be placed or posted as aforesaid, shall be held responsible for the compliance with the act and for the unauthorized removal of the notice, and if the same shall be removed without the permission of the health commissioner such occupant shall be subject to the penalty hereinafter provided.

The department of health shall have c ject to the penalty hereinafter provided. The department of health shall have charge of the quarantine hospital, and shall have

The department of health shall have charge of the quarantine hospital, and shall have the power to employ such assistants and nurses as they may deem necessary, and it shall be their duty to see that the said hospitals are provided with suitable furniture, nourishment, fuel and medicines, and all persons sick or dying therein, or in other places under charge of the city who have not means to defray their own expense of sickness and burial shall be cared for or buried at the expense of the city.

In case of pestilential or epidemic disease, or of danger from anticipated or impending pestilence or epidemic disease, or in case the sanitary condition of the city shall be of such

a character as to warrant it, it shall be the duty of the said department of health to take

a character as to warrant it, it shall be the duty of the said department of health to take such measures, and to do and order and cause to be done for the preservation of the public health (though not herein or elsewhere or otherwise authorized) as they may in good faith declare the public safety and health to demand.

The department of health may take such measures as they may, from time to time, deem necessary to prevent the spread of small pox, by issuing an order requiring all persons in the city or any part thereof, requiring vaccination, to be vaccinated within such time as they shall prescribe, and all persons refusing or neglecting to obey such order shall be liable to the penalty hereinafter provided. Providing, that it shall be the duty of the department to provide for the vaccination of such persons as are unable to pay for the same, at the expense of the city.

the same, at the expense of the city.

The department of health shall have the power to cause any house or premises to be cleaned, disinfected or closed to visitors, and prevent persons from resorting thereto while any person is laboring under any pestilential or infectious disease, they may, by an order, direct any nuisance to be abated, or unwholesome matter or substance, dirt or filth to be removed from any boyes or premises, and pure precedible to the time and seed from

order, direct any nuisance to be abated, or unwholesome matter or substance, dirt or filth to be removed from any house or premises, and may prescribe the time and mode for doing so, and take any other measure they may deem necessary and proper to prevent the spread of any infectious, pestilential or epidemic disease, and any person who shall neglect or refuse to obey the orders, directions and instructions of said department of health, shall be subject to a penalty hereinafter provided.

Said department, whenever and at such times as they shall deem necessary, may, by proclamation (the approval of the city council being first had and obtained) require all boats, vessels, railroad cars or other public conveyances bound for this city, before the same shall land or stop at any wharf, depot or landing or stopping place therein, to touch or stop at any or either of the sites, places or boundaries so selected and established for quarantine purposes, and all such enigrants, travelers or persons, and all such sick, diseased or unclean persons, with their stores and baggage, as in the opinion of the officers stationed at such quarantine sites, places or boundaries, shall be deemed proper on account of the existence of or general report of small pox, cholera or any contagious diseases or disease apprehended to endanger the health of the city.

Whenever it shall be deemed necessary to issue such proclamation, it shall be the duty of said department to send the same, together with the substance of the regulations for

of said department to send the same, together with the substance of the regulations for

quarantine and the period for which the same shall be in force, unless sooner revoked, to such cities and places as by them may be deemed proper.

They shall also cause to be stationed at such quarantine sites, places and boundaries, as they may deem advisable, one or more physicians or health officers, whose duty it shall be to go on board and examine all boats, vessels, cars or other public conveyances as aforesaid, required to touch or stop at such quarantine respectively, and then and there determine what emigrants, passengers or persons (if any) shall stop at such quarantine, and it shall be the duty of all persons, conducting or in any charge of such vessel, boat, car or public conveyance, to aid and assist any such physician or health officer in the exercise of his duty.

Said physician or health officer shall attend to all sick persons who may be landed or placed in quarantine, and provide medicine and necessaries for their use, and shall have general supervision of such quarantines and compel persons therein to purify their bodies, clothing and baggage, and do all such acts and things as shall be proper in the premises, keeping correct account of all expenditures and wages, which shall be allowed and paid by order of said department.

Whenever the physician or officer in charge of any quarantine station or place as forward about the property of the propert

aforesaid, shall, upon examination, be satisfied that there is no longer occasion for the detention of any boat, vessel, car or conveyance at such quarantine or place and such boat, vessel, car or conveyance shall have been thoroughly cleansed, and such persons as boat, vessel, car or conveyance shall have been thoroughly cleansed, and such persons as aforesaid landed and placed in the care of such physicians or officers, such physician or officer shall give such vessel, boat, car or conveyance a permit, signed by him, to enter the city, which shall be ample authority for entry of said boat, vessel, car or conveyance and the said officer, respectively, shall discharge all persons in quarantine by their certificate for that purpose, whenever they are satisfied that such persons are free of the disease and their baggage and effects properly purified. *Provided*, however, that the department, in their discretion, by proclamation for that purpose, may, during the prevalence of cholera, ship fever, or other contagious or infectious diseases, forbid the admission of engingants or others negatively liable thereto in any or all of said currenting mission of emigrants or others peculiarly liable thereto in any or all of said quarantine stations until, in their opinion, the health of the city will justify the same. It shall be the duty of said department, whenever by them it shall be deemed necessary, to keep at the quarantine station or stations a sufficient force whose duty it shall be

ished, and to arrest all persons violating such regulations or committing any breach of peace, and bring such persons before any court having jurisdiction for trial, and to arrest all persons disobeying or interfering with or resisting any physician, health officer or other persons in authority at such quarantine sites, places or stations.

health officer or other persons in authority at such quarantine sites, places or stations. In case any boat, vessel, car or public conveyance shall leave any quarantine station, place or boundary without a permit as aforesaid, or shall fail to stop at the same, when as aforesaid required by the issuing of a proclamation, or whenever the person in charge thereof, or any person under his command shall fail or refuse to obey any regulations or commands of the said department of health, physicians or persons in charge of any quarantine station or place, or of any provision or requirement of this chapter, the said department shall have the power, and it is hereby made their duty, if, in their opinion, the health of the city require it, to send sufficient police force to such boat, vessel, car or public conveyance and cause the same, with the crew and passengers on board, to be landed or stopped or conveyed to the quarantine station or place, and there to remain until properly discharged by the permit aforesaid; and the owner, master or person in charge of such boat, vessel, car or public conveyance, shall be liable to the city for all expenses and costs incurred by reason thereof. If any emigrants, travelers or persons so placed in quarantine as aforesaid shall leave the same without permission as aforesaid, they may be arrested and taken back to said quarintine and there retained until such permission shall be given. shall be given.

Said department shall make such rules and regulations for the government of the

quarantine or health of the city from time to time as they shall deem necessary, and the physician or health officer in charge of any quarantine, station or place shall have power to make and enforce such regulations as may be necessary for the proper conducting and management theeof, and it shall be the duty of all persons in quarantine and all agents, officers, policemen or others employed by the city in and about such quarantine station

officers, policemen or others employed by the city in and about such quarantine station and places, to carry out and obey the same.

The said department of health, by and with the approval of the city council, may appoint one or more competent physicians as quarantine physicians whenever the same shall become necessary by reason of the prevalence of any epidemic or pestilential disease, who shall be present at such quarantine stations as the said department of health shall designate, and attend to all duties imposed by this chapter or by the regulations of said department, and who shall receive each for actual services rendered, and for such times as such services shall be actually required, not less than five dollars nor more than ten such services shall be actually required, not less than five dollars nor more than ten dollars per day, to be allowed by said department; also, the said department may employ such agents, servants, nurses or temporary medical assistants for the purpose of carrying into effect the objects and intents of this chapter, or of any regulations, as in their judgment shall, from time to time, be necessary, or authorize the employment thereof by the

ment shall, from time to time, be necessary, or authorize the employment thereof by the physicians or health officers in charge of any quarantine station or place.

No person, master, captain or conductor in charge of any boat, vessel, railroad car or public conveyance, shall knowingly bring into the city any person diseased with cholera, smallpox, ship fever or contagious or infectious disease whatever; and no vessel, boat, car or public conveyance, at any time covered by the said proclamation, shall pass by any quarantine station or place, without stopping, nor shall leave the same without the permit aforesaid, and no person stopping in said quarantine, or so as aforesaid received therein, shall leave the same without first obtaining permission as aforesaid; nor shall any person aid or abet any master, conductor or person in charge of any boat, vessel, car or public conveyance, in violating, neglecting one yading any provisions or requirements of this charge of this charge. aid or abet any master, conductor or person in charge of any boat, vessel, car or public conveyance, in violating, neglecting or evading any provisions or requirements of this chapter; nor shall any person interfere with, resist or refuse to obey the orders of any physician, health officer, policeman or other person in authority at any quarantine station or place of quarantine so as aforesaid established; nor do any act or thing in violation of or in disobedience to any of the provisions, clauses or sections of this chapter; nor shall commit any breach of the peace nor do any act calculated in any way to defeat or interfere with the provisions or requirements of this chapter, or of any regulations of the said department, physician or health officer in charge of any quarantine.

It shall be the duty of the commissioner of health to inspect any part of the city and its environs which, from its location or from any collateral circumstances, may be deemed the cause of disease, and in all cases where he may discover any agent, the existence of which will prove dangerous to the health of the city, and there is no ordinance competent to the correction of the evil, he shall immediately report the same to the department of health, accompanied with his opinion of the necessity of extraordinary or particular action.

particular action.

The department of health, by and with the approval of the city council, may select,

The department of health, by and with the approval of the city council, may select, purchase, lease and establish such sites, places and boundaries for quarantine stations and purposes, and, with the approval of the city council, may erect from time to time, such buildings and hospitals upon such sites and places, and so keep the same in repair as in their judgment shall be deemed necessary.

Said department of health shall always have on hand, as far as practicable, a sufficient quantity of vaccine virus, and they shall provide to physicians who will vaccinate without charge all persons who may apply to them for that purpose, and shall give certificates of vaccination to children who have been vaccinated and require such certificate for admission to the public school:

for admission to the public schools.

Any master of a vessel, conductor, captain or any person whosoever, who shall violate any clause, provision, requirement, duty or regulation of this act or any rule or regulation of the said department of health, or commissioner of health, or employe, in the distion of the said department of health, or commissioner of health, or employe, in the discharge of their duty, or in charge of any quarantine; or any person whosever, who shall fail or neglect to comply with any such clause, provision, requirement, duties or orders, or who shall interfere with or in any manner resist any officer or agent of the department of health of the city of Minneapolis, in the discharge of his duty as herein contemplated, or who shall commit any such breach of peace, or be guilty of any act or thing calculated to defeat or interfere with the carrying into effect any part of this act, or any regulation or order of said department of health or ordinance of said city in relation to the public health, shall, upon arrest and conviction by the municipal court of the city of Minneapolis, or the district court of the county of Hennepin, be subject to a fine not to exceed one hundred dollars (\$100), nor less than ten dollars (\$100) for each offense, together with costs of prosecution.

costs of prosecution.

Said department of health may order or cause any excavation, erection, vehicle, Said department of health may order or cause any excavation, erection, vehicle, vessel, water craft, room, building, place, sewer pipe, passage, premises, ground, matter or thing in the city of Minneapolis, or adjacent waters, regarded by said department as in a condition dangerous or detrimental to life or health, to be purified, cleansed, disinfected, altered or improved, and may also order any substance, matter or thing, being or left in any street, alley, water, excavation, building, erection, place or grounds (whether such place where the same may be is private or public) and which said department may regard dangerous or detrimental to life or health, to be speedily removed, and may designate or provide a place to which the same shall be removed, when no such adequate or proper place, in the judgment of said department, is already provided.

It shall be the duty of the said department of health to aid in the enforcement of and as far as practicable to enforce all laws of this state applicable within the limits of the city

It shall be the duty of the said department of health to aid in the enforcement of and as far as practicable to enforce all laws of this state applicable within the limits of the city of Minneapolis to the preservation of human life or to the care, promotion or protection of health, and said department may exercise the authority given by the laws aforesaid to enable them to discharge the duties herein imposed; and this section is intended to include all laws relative to cleanliness and to the use or sale of poisonous, unwholesome, deleterious or adulterated drugs, medicines or foods. And said department is authorized to require reports and information at such times and of such facts, and generally of such nature and extent relating to the safety of life and promotion of health as its by-laws and rules may provide, from all dispensaries, hospitals, asylums, infirmaries, prisons and schools and from the managers, principals and officers thereof; and from all other institu-

tions, their officers and munagers, and from the proprietors, managers, lessees and occupants of all theatres and other places of public resort or anusement in said district; and it is hereby made the duty of the officers, institutions and persons so called on or referred to promptly to give such reports verbally or in writing, as may be required by said de-

partment.

That the said department of health is hereby authorized and it shall be its duty to make such rules and recommend such ordinances as to them may seem necessary and proper, for the purpose of compelling all physicians practicing within the limits of the city of Minneapolis, to make reports of all cases of contagious diseases upon which they may be in attendance; and all keepers of boarding or lodging houses, all inn-keepers and hotel keepers, to make report of all cases of contagious diseases occurring within their respective houses, and generally to make such regulations and rules as to them may be deemed necessary for the carrying into effect the objects of this section of obliging reports of contagious diseases to be made to said department of health by all persons becoming cognizant of the same.

And the said department of health is hereby authorized and it shall be its duty to

becoming cognizant of the same.

And the said department of health is hereby authorized and it shall be its duty to make rules or recommend ordinances regulating the interment and removal of dead bodies, their entry into, removal from, and passage through the said city of Minneapolis and no body shall be buried or exhumed within the limits of the said city of Minneapolis, removed therefrom or received therein, to pass through the said city without a written permit first obtained from the said department of health, and to be issued in the manner and under the conditions by them prescribed, and the said department of health shall make all rules and regulations necessary for carrying out the objects of this section.

That the jurisdiction of the city of Minneapolis shall extend to and prevail over all cemeteries under the control of organizations established in said city, and it shall be the duty of the department of health to make such rules and regulations as may be deemed necessary regarding the reception and interment of dead bodies within the same, and prescribe the duties of all sextons and keepers of such cemeteries relative to the reception and burial of dead bodies.

The jurisdiction of the department of health of the city of Minneapolis shall extended to the control of the department of health of the city of Minneapolis shall extended.

The jurisdiction of the department of health of the city of Minneapolis shall extend over all lakes and water courses of the county of Hennepin, to the same extent as within

the limits of said city.

Said commissioner of health shall annually, on or before the first day of January, present to the mayor and city council, a thorough and comprehensive statement of all matters pertaining to said department during the year, and of all expenditures from the appropriation for the health department, together with a statement in detail of the appropriations required by the department during the next municipal year.

RULES AND REGULATIONS

OF THE

DEPARTMENT OF HEALTH,

MINNEAPOLIS, MINN.

CITY OF MINNEAPOLIS, MINN., July 15, 1889.

In pursuance and by virtue of the authority granted by an act of the legislature of the state of Minnesota, entitled, "An act relating to the reorganization of the legislature of the state of Minnesota, entitled, "An act relating to the reorganization of the health department and preservation of the public health of the city of Minneapolis, Minnesota," approved April 22, 1889, the department of health of the city of Minneapolis, in the county of Hennepin and state of Minnesota, does hereby make the following rules and regulations which the said department deems necessary for the government of the quarantine and health of the said city of Minneapolis.

FOOD AND DRINK.

Section 1. No meat, fish, game, fowl, fruit, vegetables, milk, or any other article of food or drink, or intended for human consumption, the same being then unhealthy, stale, unsound, tainted, putrid or unwholesome, and no meat of any beast, fish, game or fowl that has died by disease or accident, shall be brought within, or carried from place to place, or kept or offered for sale, as or for such food or drink, in any public or private market, store, shop or place within the corporate limits of the city of Minneapolis.

Sec. 2. It shall be the duty of every person who has knowledge that any meat, fish, game, fowl, fruit, vegetables, milk or any other article of food or drink, are brought within, kept or offered for sale in said city, when in an unhealthy, stale, unsound, tainted, putrid, or unwholesome condition, to report the fact of such knowledge and all the particulars relating thereto to the department of health of said city. It shall be the duty of the commissioner of health to examine, and if necessary, to condemn, seize and confiscate all such meat or other provisions wheresoever within said city they may be found. Provided: That such seizure and confiscation shall in no wise exempt any offending party from the penalty prescribed in these rules and regulations.

Sec. 3. No person shall bring or send into, or deliver, keep or offer for sale or for use as food for human consumption, within said city, any unwholesome, skimmed, watered or adulterated milk, or any milk known as "swill-milk," or that has been obtained from cows or other animals that are sick or diseased, or that have been fed upon swill.

Sec. 4. It shall be the duty of every person who is the owner of, agent for, or occupant of any room, store, stall or place within said city, in which any meat, fish, game, fowl, fruit, vegetables, milk or any other article of food or drink are stored, kept or offered for sale, to put and keep such room, store, stall or place, and all the appurtenances thereof, in a clean and wholesome condition.

Sec. 5. No calf which has been killed when less than four weeks old, or pig which has been killed when less than five weeks old, or lamb which has been killed when less than eight weeks old shall be brought into, kept or offered for sale within said city.

Sec. 6. No dead animal, above the size of a rabbit, nor any meat thereof shall be taken

SEC. 6. No dead animal, above the size of a rabbit, nor any meat thereof shall be taken to or exposed for sale, as food, in any public or private market within said city, until same shall have been fully cooled after having been killed and until all blood shall have ceased dropping therefrom and until the entrails, head (unless the same has been skined), hide, horns and feet shall have been removed, and no gut-fat or any other unwholesome or offensive matter or thing shall be brought to or near any such market.

SEC. 7. No cattle shall be confined or kept in any place within said city, in which the supply of fresh air, water and food is insufficient for the preservation of their health and wholesome condition as human food. SEC. 6. No dead animal, above the size of a rabbit, nor any meat thereof shall be taken

wholesome condition as human food.

wholesome condition as human food.

Sec. 8. No manager, keeper or employe of any saloon, restaurant, hotel or boarding house, within said city, shall keep, offer or serve, for food or drink, any poisonous, deleterious or unwholesome substance or thing.

Sec. 9. No person shall keep, use, serve, or offer for use or sale as a beverage within said city, any poisonous, adulterated or deleterious liquid or liquor.

Sec. 10. No person shall put or place or allow to run or pass into any source of drinking water or into any hydrant, well, font or water pipe used for the conveyance of the same, within said city, any dirty, poisonous or noxious substance or any animal or vegetable matter; nor shall any person do, or permit to be done dhaving right or power to prevent the same) any act or thing which will impair or imperil the purity or wholesomeness of any water or other fluid used, or designed to be used as a drink within said city.

CONTAGIOUS DISEASES, ETC.

Sec. 11. No person or persons shall introduce or aid in introducing, into said city, any person sick with, or any person or thing infected with Asiatic cholera, yellow fever, typhus or typhoid fever, smallpox, scarlet fever, measles, diphtheria or any other contagious

or infectious disease

or infectious disease.

SEC 12. It shall be the duty of any and every physician who is called to attend any case of Asiatic cholera, yellow fever, small pox, scarlet fever, measles, diphtheriu, typhus or typhoid fever within said city, to notify the department of health of said city in writing, within twenty-four hours after his first visit thereto or after he has first seen or prescribed therefor, of the existence of such disease and of the date of its appearance together with the name and residence of the person affected therewith. Subsequent cases

together with the name and residence of the person affected therewith. Subsequent cases of contagious disease which may occur in the same family or at the same residence while the same is under quarantine regulations shall each and all be reported in similiar manner to the said department of health by the physician in attendance upon said cases.

SEC 13. It shall be the duty of every proprietor, manager, superintendent, principal, owner, agent or other person in charge of any hotel, boarding house, boarding school, tenement house or other place of residence, or of any hospital, asylum or other public institution within said city, in which any contagious or infectious disease may be discovered, to give immediate notice to the department of health of said city of the existence therein of such contagious or infectious disease and of the name or names of the present therein of such contagious or infectious disease, and of the name or names of the person

or persons affected therewith.

or persons affected therewith.

SEC. 14. No parent or gardian of any minor child shall permit such child, if affected with any contagious or infectious disease, or any other child or children of the same family, or resident in the same house in which said child so affected may be living, to attend any private or public day school, night school or Sunday school within said city.

SEC. 15. It shall be the duty of any principal or teacher in charge of any private or public school, day school, night school or Sunday school, within said city, to report to the department of health the name and residence of any child who, being affected with any contagious or infectious disease, shall present him or herself for attendance at such school to cause such child so affected to return home immediately, and to exclude from attendance at such school any child so affected, and any other child or children who may belong to the same family, or live in the same residence as that to or at which such child so affected may belong or reside, until such time as the said department of health shall issue a written permit providing for the re-admission of such child or children to said school. school.

Sec. 16. It shall be the duty of any person who may know of any case of contagious or infectious disease within said city, which he shall have reason to believe has not been reported to the department of health, to report immediately to the said department the name (if known) and the place of residence of the person affected with such disease, together with a statement of the name and nature of his or her disease.

SEC. IT. No person shall carry or remove, or aid in carrying or removing, or cause to be carried or removed from one building or place to another, or to or from any vehicle, within said city, any person who is sick with small pox or any other contagious or infectious disease without naving first obtained a permit so to do from the department of health of said city.

health of said city.

SEC. 18. It shall be the duty of every physician who is attending any person or persons affected with any contagious or infectious disease (as enumerated in section 13 of

sons affected with any contagious or infectious disease (as enumerated in section 13 of these rules and regulations) to report promptly to the department of health of said city the recovery or death of such person or persons so affected, and to certify to said department that the house in which such person or persons have been quarantined has been thoroughly disinfected, together with the date of such disinfection.

SEC. 19. Whenever quarantine has been established by the department of health upon or in any house within said city in which any contagious or infectious disease exists, by a placard affixed to such house, such quarantine and all the provisions thereof shall be maintained until the recovery or death of the person or persons affected with any such disease has been reported to the said department, and until the said house has been thoroughly disinfected, and until such disinfection has been approved and such placard

removed by said department. In the event of the occurrence of scarlet fever, the quarantine shall extend over a period of not less than three weeks from the date of the appear-

ance of such disease.

ance of such disease.

Two weeks after the disinfection of any such house so quarantined has been approved and such quarantine has been released by the department of health of said city, a written permit may be issued by said department authorizing the return and re-admission to school of any child or children resident in such house; provided: That no other case or cases of contagious or infectious disease shall have appeared in such house in the meantime

time.
SEC. 20. No parent, guardian or custodian of any minor child within said city shall nermit such child to be unnecessarily exposed to contagion or infection from any con-

tagious or infectious disease

tagious or infectious disease.

SEC. 21. It shall be the duty of every parent, guardian or custodian of any minor or other individual within said city to cause and procure such minor or other individual to be promptly, frequently and effectively vaccinated.

SEC. 22. No principal, teacher or other person in authority over any public or private school, academy, college or university within said city shall permit any pupil or student to enter or be enrolled in such school, academy, college or university unless he or she shall present a certificate of vaccination, signed by some physician in actual practice within said city, and the said certificate of vaccination shall be preserved and recorded by cauch principal, teacher or other purson in suthority. by such principal, teacher or other person in authority.

DEATHS, BURIALS, CEMETERIES, ETC.

Sec. 23. It shall be the duty of every physician within said city, who shall be in professional attendance upon any person at the time, or within 12 hours of the time of the death of such person, to furnish promptly to the department of health of said city, a certificate, written in ink, setting forth the date of such death, the full name, the age, the sex, the color, the social state, the occupation, the place of birth, the place of death, the true and recognized cause of death, the duration of the disease which has caused such death, the length of residence in the city and state, and the names and birthplaces of the parents of such person, together with the place of proposed interment of such dead person, and name (if known) of the undertaker who will have charge of such interment.

(if known) of the undertaker who will have charge of such interment.

In the event of any death occurring within said city, from any contagious or infectious disease, it shall be the duty of the physician in attendance upon the same to furnish to the department of health of said city a written certificate of death, as described above, within 12 hours of the time of such death.

In the event of the occurrence of the death of any person within said city, upon whom no physician has been in professional attendance at the time of or within twelve hours preceding such death, a similar written certificate, as above described, shall be furnished and similar written certificate, as above described, shall be furnished

preceding such death, a similar written certificate, as above described, shall be furnished and signed by the coroner.

SEC. 24. No person shall retain or allow to be retained, unburied, the dead body of any human being within said city for a longer time than three days after the death of such human being, without having obtained a written permit so to do from the department of health of said city, which permit shall specify the length of time during which such dead body may be retained unburied.

Provided: That in case such dead person shall have died of Asiatic cholera, yellow fever, smallpox, scarlet fever, measles or diphtheria, the body of such person shall be huried within twenty-four hours after death

fever, smallpox, scarlet fever, measles or dipatheria, the body of such person shall be buried within twenty-four hours after death.

Sec. 25. It shall be the duty of any and every person who has discovered or seen, or who knows of the whereabouts within said city of the dead body of any human being, or of any part thereof (if such person has reason to believe that the fact of the death or of the existence or whereabouts of such dead body or of such part thereof is not known to the department of health of said city) to communicate immediately to said department the fact of such discovery, the place wherein and the time when such dead body or part thereof was discovered or seen, and the place where the same is or may be found, and any facts known to such person by which the same may be identified or the cause of death thereof ascertained. thereof ascertained.

Sec. 26. No undertaker, or other person, shall remove for burial, shipment or for any

Sec. 26. No undertaker, or other person. shall remove for burial. shipment or for any other purpose, whether scientific or otherwise, the dead body of any human being, within said city, or to or from said city, without first presenting to the department of health of said city a certificate of death (in accordance with the provisions of section twenty-four of these rules and regulations) signed by a legally practicing physician or by the coroner of the county and without obtaining therefrom a written permit to do so.

No interment or deposit of the dead body of any human being, or any other disposition thereof in any tomb, grave. Vault or cemetery shall be made, within said city, without a written permit to inter, deposit or otherwise dispose of the same has first been granted by the said department of health; and no sexton or any other person shall assist in, countenance or allow any such interment or deposit of any such dead body unless such permit has been granted therefor by the said department.

Sec. 27. No physician, medical student or professor in any medical college or university or any other person within the said city shall use, obtain or receive any dead body of any human being, for dissection or for any other scientific purpose, excepting for autopsy immediately after death, which has died of Asiatic cholera, yellow fever, typhus fever, smallpox, scarlet fever, measles or diphtheria. It shall be the duty of the demonstrator of anatomy of any medical college or university, before using or receiving any dead human body for dissection or any other scientific purpose, within said city, to certify to the departbody for dissection or any other scientific purpose, within said city, to certify to the department of health of said city the name and nature of the disease of which said human body has died and to obtain or cause to be obtained from said department a permit of burial for such body, and to preserve or cause to be preserved the remains of such dead body and to bury or cause the same to be properly buried in the cemetery or burying ground indicated in creds popular.

in such permit.

SEC. 28. It shall be the duty of every sexton, superintendent of a cemetery, or other person in charge of any cemetery or burying ground within said city, to receive the permits issued for burials in said gemetery or burying ground, to preserve the same and to furnish to the department of health of said city, upon Monday of each week, a written report, upon blank forms to be furnished upon application by said department, of all burials made or caused to be made by him.

SEC. 29. It shall be the duty of the undertaker, near relatives or any other person having charge of the funeral or burial of the dead body of any person within said city, who has died of Asiatic cholera, yellow fever, typhus fever, typhoid fever, smallpox, scarlet fever, diphtheria, measles or any other contageous or infectious disease, to keep such funeral strictly private and to permit no other person or persons excepting the immediate members of the deceased person's family who are residents at the place of death, and the officiating elergyman or minister, to be present thereat; and to convey such dead body directly from the place of death to the place of burial and in no other vehicle than a hearse.

SEC. 30. It shall be the duty of the undertaker, near relatives and of any other person or persons within said city who shall have charge of the burial or shipment, or of the preparations for the burial or shipment of the dead body of any person who has died of any contagious or infectious disease to observe and obey the following rules and regulations employed.

bodied in this section.

(a) The dead body of any person who has died of any contagious or infectious disease shall be thoroughly disinfected, and shall not be exposed to the view of any person who

smar be thoroughly disinfected, and shall not be exposed to the view of any person who is not necessarily engaged in the preparation of the same for burial.

(b) The dead body of any person who has died from any contagious or infectious disease shall not be placed or kept in any receiving vault, in any cemetery or burying ground, unless such dead body shall be first enclosed in a hermetically sealed, zinc-lined or other metallic casket, and unless a written permit so to do has first been obtained from the department of health of said city.

(c) No dead body of any pagent who has died of Ariestically in the control of the said city.

(c) No dead body of any person who has died of Asiatic choleria, yellow fever, typhus fever or small pox, shall be shipped or carried into or from said city by any means or con-

fever or small pox, shall be shipped or carried into or from said city by any means or conveyance whatsoever.

(d) In preparing for shipment the dead body of any person who has died of scarlet fever, measles, diptheria or typhoid fever, the said body shall be wrapped in a sheet saturated either with a solution of bichloride of mercury, of a strength of one part in two thousand, or with a solution of carbolic acid, of the strength of one part in forty. The said body shall then be enclosed in a tightly sealed casket and said casket shall then be placed in a zinc-lined box. The spaces above and beneath said casket and between said casket and zinc-lined box shall be filled with sawdust which has been previously saturated with a solution of bichloride of mercury, of the strength of one part in two thousand, or with a solution of carbolic acid, of the strength of one part in forty. The zinc-lined box shall then be hermetically sealed.

with a solution of carbolic acid, of the strength of one part in forty. The zinc-lined box shall then be hermetically sealed.

(e) No person who has been exposed to contagion or infection from the dead body of any person who has died of any contagious of infections disease either before or after death, shall be permitted to accompany the remains of such dead person in their removal to or from said city.

SEC. 31. No grave, tomb, vault or other receptacle in which any dead body has been placed, shall be opened within said city for the purpose of exhuming or removing such dead body, unless a written permit so to do has been granted by the department of health, which permit shall dictate any precautions to be observed in so doing, which the said department may deem necessary for the preservation of the public health.

SEC. 32. Every grave in which any dead body shall be buried within said city shall be dug to a depth of not less than four feet below the grade of any closely adjacent street.

than four feet below the grade of any closely adjacent street.

SEC. 33. No new cemetery, burying ground, vault or tomb, for the reception and burial of dead human bodies, shall be established within said city or under the control of any organization within said city, without a permit so to do shall first have been granted by the department of health of said city.

SEC. 34. It shall be the duty of every person who acts as an undertaker or as a sexton or superintendent in charge of any vault, tomb, burying ground or cemetery, for the reception and burial of human dead, within said city, to cauch his or her name, place of residence and the title of his or her office to be registered at the office of the Department of health.

DISEASED AND DEAD ANIMALS.

SEC. 35. Every veterinary surgeon who is called to examine or attend professionally any animal within said city which has or is suspected of having, glanders, or farcy, or pleuro-pneumonia, or hydrophobia, or any other dangerous or communicable disease, shall report in writing to the department of health of said city, within twenty-four hours after his first visit thereto, the location of such diseased animal, the name and address of the owner thereof, and the nature of the disease or suspected disease affecting such animal. SEC. 36. No person shall buy, sell, keep or cause to be kept within said city, any horse, ass, colt, or any other animal which is sick with either of the diseases known as glanders, or farcy, or pleuro-pneumonia, or hydrophobia. It shall be the duty of any person owning, keeping or caring for, or knowing of any animal affected with glanders, or farcy, or pleuro-pneumonia, or hydrophobia to report the fact and the whereabouts of such animal promptly to the department of health of said city.

SEC. 37. Any animal which is diseased with glanders, or farcy, or pleuro-pneumonia, or hydrophobia within said city, and which has been condemned by the department of health of said city, shall be immediately quarantined, and shall be killed and removed so soon and in such manner as the said department shall direct.

SEC. 38. No diseased or sickly horse, cattle, swine, sheep, dog or cat or any other

SEC. 38. No diseased or sickly horse, cattle, swine, sheep, dog or cat or any other animal, and no animal which has been exposed to any disease which is contagious or infectious among animals, shall be brought into or exposed in any street, alley or public

infections among animals, shall be brought into or exposed in any street, aftey or public place in said city.

SEC. 39. No person shall abandon or leave in any street, alley, lot or other public place within said city any sick or injured horse or other animal. It shall be the duty of the owner of such sick or injured animal to make provision for the care and shelter of the same, or, if such sick or injured animal shall be adjudged past recovery, to kill or cause the same to be killed and removed under the rules and regulations of the department of health of said city.

SEC. 40. Any person who shall know of any sick or injured animal which has been abandoned or left, or which has been found upon any street, alley, lot or public place

within said city without an owner, shall immediately notify the department of health of

within said city without an owner, shall immediately notify the department of health of said city of the fact and of the whereabouts of such animal.

SEC. 41. Any sick or injured animal found or abandoned upon any street, alley, lot or public place within said city without an owner, which is adjudged by the department of health of said city, and by any veterinary surgeon summoned by said department, to be past recovery, shall, after an interval of two hours, if unclaimed and uncared for by the owner thereof, be killed and removed by order of said department.

SEC. 42. No person shall deposit or cause to be deposited upon any lot or in any street, alley, lake or river or other body of water, or bury or conceal in any way, within said city, any dead animal or part thereof. It shall be the duty of any owner or other person having charge of any animal at the time of its death, to remove or cause to be removed the dead body of such animal, within sai hours after death, to the crematory, dump, licensed rendering factory or any other proper place, within said city, designated by the department dering factory or any other proper place, within said city, designated by the department of health.

NUISANCES.

Sec. 43. No owner of, agent for, or occupant of any house, store, hotel, restaurant, market or stable, nor any other person, shall accumulate, throw or deposit, or cause to be thrown or deposited, or shall pass or allow to be passed into or upon any street, alley, lot vacant place, sidewalk, catchbasin, manhole, gutter, pond, lake, river, creek or other body of water, or upon the banks thereof within said city, any animal or vegetable matter, garbage, swill. slops, offal, butcher's waste, store sweepings, street sweepings, rubbish, refuse, manure, straw, hay, animal beddings, ashes, night soil, sewage sludge, contents of cesspools or privy vaults, or any other nauseous or unwholesome substance, fluid, or

Sec. 44. It shall be the duty of the owner, manager, proprietor, agent or occupant of any house, store, hotel, restaurant, saloon, or stable, within said city, to provide water-tight boxes, barrels, buckets or other suitable receptacles for the reception of garbage. offal, ashes, manure and other refuse and to place the same upon the premises such persons may own, occupy or control in a situation as remote as possible from any surrounding dwellings, and not less than 50 feet from any adjacent street; and to empty and cleanse the same or cause the same to be emptied and cleansed as often as may be necessary to prevent such receptacles or the contents thereof from becoming a nuisance, or as often as the department of health of said city may direct.

SEC. 45. It shall be the duty of every proprietor, manager or tenant of any market, commission house, butcher shop, fruit store, restaurant, eating house, boarding house or botel within said city to make provision for and to secure the daily repoyel of all gones.

commission house, butcher shop, fruit store, restaurant, eating house, boarding house or hotel within said city to make provision for and to secure the daily removal of all garbage, offal or refuse which may accumulate therein, and to keep such house, store, restaurant or hotel, at all times free from offensive odors or nuisances.

SEC. 46. No person shall throw into any privy vault, sink or cesspool within said city any garbage, offal, swill or other household refuge; nor shall any person discharge, or cause to be discharged, into any privy vault the slops or water running through or from any sink or drain-pipe within any dwelling or other building.

SEC. 47. It shall be the duty of the owner, agent or occupant of any house, store, factory or other building or premises within said city, upon or in connection with which any privy vaults or cesspools are maintained, to make and keep such privy vaults and cesspools watertight and in good repair to empty to the bottom and to cleanse and disinfect the same whenever said privy vaults or cesspools shall be or become nauseous, offensive or dangerous to the public health, or whenever the department of health of said city may adjudge such emptying, cleansing and disinfecting to be necessary and order

city may adjudge such emptying, cleansing and disinfecting to be necessary and order the same to be done.

SEC. 48. It shall be the duty of every owner of or agent for any house, store, hotel, factory or other building within said city, to make connections, agreeably to the provisions of the plumbing ordinance of said city, between such building and the public sewers of of the plumbing ordinance of said city, between such building and the public sewers of said city, whenever such sewers exist in the immediately adjacent or abutting steets and whenever the department of health of said city shall order such sewer connection to be made. And, in the absence of such sewers in the immediately adjacent or abutting streets, it shall be the duty of the owner of or agent for such building to make or cause to be made a cesspool in connection with such building whenever the department of health of said city shall consider the same necessary, and shall order the same to be done, and in such location and of such dimension as the building inspector shall direct.

SEC. 49. It shall be the duty of the owner, agent or occupant of any house, store or other building within said city, in which any drain-pipe, soil-pipe or passage exists in connection with any sewer or cesspool, to make and to keep such drain-pipe, all-pipe or passage adequate for its proper purposes and free of any obstruction to the passage of such materials that may or should be put or discharged into the same.

SEC. 50. No person shall own, conduct or engage in the business of tanning, skinning.

SEC. 50. No person shall own, conduct or engage in the business of tanning, skinning, scouring or dressing hides and leather, or in the business of glue making, or of rendering. scouring or dressing hides and leather, or in the business of glue making, or of rendering, boiling, heating, steaming, grinding or crushing animal or vegetable waste matter, meat, fat. bones or garbage, or in any other business which shall be nauseous, offensive or dangerous to the public health, within said city, without having first obtained a written permit or license so to do from the department of health of said city, and then only in such place or places and under such conditions as the said department may require. Failure upon the part of such person or persons, engaged in such business, to comply with the aforesaid conditions, shall subject such person or persons to a revocation of such permit or license at any time thereafter by the said department.

SEC. 51. It shall be the duty of every owner, agent or occupant of any building or any part thereof, within said city, which has been or shall be condemned by the department of health of said city as unfit for human habitation by reason and account of its infection with any disease or of its being subject to the influence of any nuisance which is adjudged by said department to be dangerous to human life or health, to vacate such building or part thereof within such reasonable time as may be specified in a written notice to such effect, which shall be served by said department upon such owner, agent or occupant of said building.

SCAVENGER SERVICE, ETC.

Sec. 52. No person shall remove or cause to be removed, cleaned or carrried within said city, the contents of any privy vault or eesspool or any offal, butcher's waste, garbage, swill, rough tallow or slaughter house refuse, or any carcass of any dead animal without having first obtained a written permit so to do from the department of health of said city, and it shall be the duty of such person to comply with all the requirements and conditions

of such permit.

SEC. 53. No person shall perform any scavenger service by means of either carts or tanks within said city between the hours of midnight on Saturday and of midnight on Sunday; and no person shall remove the contents of any vaults or cesspools by means of carts within said city between the hours of five a. m. and ten p. m. on each week day with-

out a special permit so to do.

SEC. 54. It shall be the duty of every owner, keeper or driver of any scavenger cart, tank or vessel within said city to make and keep the same water-tight, covered and clean, and to wash and disinfect every such cart, tank or vessel which is used for the conveyance of night soil or cesspool filth, at the dump or in the river adjacent thereto, each time and

and to wash and disinfect every such cart, tank or vessel which is used for the conveyance of night soil or cesspool filth, at the dump or in the river adjacent thereto, each time and immediately after the same is emptied.

SEC. 55. It shall be the duty of every owner, keeper or driver of any scavenger cart, tank, vessel or tools within said city to keep the same when not in actual use in a suitable barn, stable, shed or other complete inclosure, and no such cart, tank, vessel or tools shall be permited to stand on or to remain upon any street, alley or to twhen not in actual use.

SEC. 56. It shall be the duty of every owner, keeper or driver of any scavenger cart or tank within said city to submit the said cart or tank for inspection to the department of health of said city at least once in each month, and if the condition of the said cart or tank is not approved by said department, it shall be the duty of such owner, keeper or driver to keep the same out of service until it is cleaned, altered or repaired.

SEC. 57. No person engaged in the removal of any refuse of whatever kind within said city shall permit or cause the same to be piled up or raked together in any street or public place for a longer time than four hours.

SEC. 58. It shall be the duty of every person who is engaged in the removal, loading or unloading, or conveyance, within said city, of any contents of any privy vault or cesspool, or of any offal, butcher's waste, garbage, swill, slaughter house refuse, street sweepings, or of any other filthy or offensive substance, to do the same neatly and with dispatch, and to avoid all unnecessary offense in so doing.

SEC. 59. No person shall permit or cause any vehicle carrying the contents of any privy vault or cesspool, or any offal, garbage, swill or other filthy or offensive substance, within said city, to stand or remain before or near any building or residence or upon any street, alley, lot or other public place for any longer time than is actually required in the loading, conveyance and unloa

SEC. 60. It shall be the duty of every owner, keeper or driver of any scavenger cart, tank or vessel, within said city to keep such cart tank or vessel in good repair, to avoid overloading the same or spilling its contents, and to keep a close cover over such cart. tank or vessel while driving the same upon the public streets and alleys, and if any of the contents thereof shall be spilled or fall upon any street, walk or premises, it shall be the duty of such owner, keeper or driver to replace the same immediately and remove all

No person shall obstruct, delay or interfere with the proper and free use of SEC. 61. the crematory and dumps within said city, or resist the keepers thereof in the proper dis-

charge of their duties.

PENALTIES AND PUBLICATION.

SEC. 62. Any person whosoever who shall violate any clause, provision, requirement or duty of these rules and regulations of the said department of health, or of the Commissioner of health, in the discharge of duty or in charge of any quarantine; or any person whosoever who shall fail or neglect to comply with any such clause, provision, requirement, duty or orders, or who shall interfere with or in any manner resist any officer or agent of the department of health of the city of Minneapolis in the discharge of his duty, as herein contemplated, or who shall commit any such breach of peace, or be guilty of any act or thing calculated to defeat or interfere with the carrying into effect any regulation or order of said department of health, shall, upon arrest and conviction thereof before the municipal court of the city of Minneapolis, or the district court of the county of Hennepin, be subject to a fine not to exceed one hundred dollars (\$100), nor less than ten dollars (\$10) for each offense, together with costs of prosecution.

SEC. 63. The foregoing rules and regulations of the department of health of the city of Minneapolis shall take effect and be in force from and after the publication of the same in the official paper of the said city.

same in the official paper of the said city.

OFFICE OF THE DEPARTMENT OF HEALTH, \ MINNEAPOLIS, MINN, July 15, 1889.

We hereby certify that the foregoing rules and regulations, severally and as a whole, were adopted by the department of health at a meeting held on the 15th day of July, 1889, and the publication of the same was ordered to be made in the Minneapolis Evening Star, it being the official paper of the city of Minneapolis, Minnesota.

Signed:

E. C. BABB,

Mayor.
ALDERMAN H. W. BRAZIE,
ALDERMAN E. G. POTTER,
ALDERMAN J. C. STERLING,

Secretary. S. S. KILVINGTON, M. D., Chairman and Commissioner of Health.

[L. S.]

STATE OF MINNESOTA, County of Hennepin.

On this, the fifteenth day of July, 1889, before me, the undersigned, a notary public in and for said county of Hennepin, personally appeared E. C. Babb, mayor; Alderman H. W. Brazie, Alderman E. G. Potter, Alderman J. C. Sterling, S. S. Kilvington, Commissioner of Health, to me well known, and having subscribed their names to the foregoing affidavit and been duly sworn, said that the foregoing rules and regulations, severally and as a whole, were adopted by the department of health at a meeting held on the 15th day of July, 1889, and that the publication of the same was ordered in the Minneapolis Evening Star, the official paper of the city of Minneapolis, and that the same is true of their own knowledge.

(CHAS F. HANEY, Notary Public, Hennepin County, Minn.

CLARIBEL S. BARD, Witnesses. CHAS. F. HANEY,

STATE OF MINNESOTA. SS. County of Hennepin.

Came personally before me. Meinardt H. Garrels, and being duly sworn, doth depose and say, that he now is, and during all the time hereinafter mentioned, has been the foreman and printer of the Minneapolis Evening Star, a daily newspaper of general circulation, printed and published in the city of Minneapolis, in said Hennepin county. That he knows of his own knowledge that the printed notice hereto attached, cut from the columns of said paper, was inserted, printed and published in said newspaper once, and that said published in said newspaper on Tuesday, the 16th day of July, 1889, and that said newspaper was published daily and generally circulated in said Hennepin county for more than one year next preceding the date of the publication of said notice.

M. H. GARRELS.

M. H. GARRELS. Subscribed and sworn to before me this 17th day of July, A. D. 1889. E. T. BENNETT, Notary Public, Hennepin County, Minn.

ANNUAL REPORT

OF THE

JUDGES OF MUNICIPAL COURT,

Of the Qity of Minneapolis.

MUNICIPAL COURT.

GEORGE D. EMERY,	-		***		rie .	Judge.
STEPHEN MAHONEY,		-		-	Special	Judge.
H. J. ALTNOW,	-		-		-	Clerk.
ED. A. ALLEN, -		-		-	Deputy	Clerk.
OSCAR J. SMITH,	-		-		Deputy	Clerk.
THOMAS NEWLOVE,		-		-	Stenog	rapher.

COURT CFFICERS DETAILED FROM POLICE FORCE.

WASHINGTON PIERCE,		- Sergeant.
JOHN C. CAMPBELL, -	- "	Court Officer.
JOHN BYRNES, -	-	Court Officer.
PPILLIP T. MEGAARDEN,	-	Court Officer.
JOHN B. SCHWAB, -	-	Court Officer.
W. EHRLICHMAN, -	-	Court Officer.

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OF THE

JUDGES OF MUNICIPAL COURT,

MINNEAPOLIS, MINN.

MINNEAPOLIS, MINN., January 1, 1890.

To the Honorable the City Council of the City of Minneapolis:

Gentlemen—In accordance with your request we herewith submit a statement of the business of the Municipal court for the year 1889:

CRIMINAL

Chiminal.	
Convictions of petty offenses	4,785 274
Tried or examined and discharged. Committed to workhouse.	639
Committed to county jail	
Committed to reform school Paid fines	28 2,024
Committed to city hospital. Bound over to keep the peace.	1
Sentence suspended before commitment.	690
Sentence suspended after commitment Forfeited bail—paid bar association.	\$560.00
Total fines collected and paid city	33,349,40
CIVIL.	
Number of suits entered during the year. Amount of fees collected and paid city	2,620 \$5,424.08
Total amount paid city	\$38,773.48

The Following Table Shows the Distribution of Business by Months.

MONTH, 1889.	Fines.	Fees.	Total Receipts
January	\$1,117.00	\$348.58	\$1,465.58
ebruary	1,338.35	455.23	1,793.58
March	1,201.45	373.79	1.575.24
April	1,674.70	328.75	2,003.45
May	2,595.35	308.65	2,904.00
June	2,727.00	417.03	3,144.03
July	3,752.12	301.97	4,054,09
August	3,585,88	287.20	3,873,08
eptember	3,432,05	733.03	4,165,08
October	4.616.00	544.07	5,160.07
November	3.935.75	755.45	4,691.20
December	3,373.75	570.33	3,944.08
Total	\$33,349,40	\$5,424.08	\$38,773.48

As now constituted, the court consists of two judges, one clerk and two deputies and one stenographer, with one sergeant and five officers for special

service.

On the civil side regular terms are held on the first and third Tuesdays of every month. July and August excepted. Special terms are held every Tuesday throughout the year. Its jurisdiction extends to all suits at law where the amount in controversy does not exceed five hundred dollars. It has no jurisdiction in equity cases nor suits involving the title to real estate nor for divorce.

On the criminal side it has the general jurisdiction of a justice of the peace and exclusive jurisdiction of all offenses against the city ordinances. It is

open every day except Sundays and legal holidays.

The general practice is the same as in the District courts, and a jury is in attendance on the second day of every general term and remains as long as needed.

The business of the court has constantly increased ever since its organization. During the year just past it exceeded that of the preceding year by

over one-half—a larger proportionate gain than heretofore.

If this rate of increase is maintained for two years more the judicial and clerical force will need to be increased or the business will be retarded.

Respectfully submitted, GEO. D. EMERY,

GEO. D. EMERY,
Municipal Judge,
STEPHEN MAHONEY,
Special Judge.

OF THE

SUPERINTENDENT OF WORK HOUSE,

Of the City of Minneapolis.

WORK HOUSE COMMITTEE OF CITY COUNCIL.

JOHN C. STERLING, Chairman,
HERMAN VOGT, BENJ. H. BILLINGS,
HENRY W. BRAZIE, GEO. H. WARREN.

OFFICERS.

JOHN WEST,	-	-		Superintendent.
MICHAEL WHELAN,	-	~	-	- Deputy.
GEO. P. DODD, -	-	-		- Hall Master.
MAX WOLFGANG,	-	~	-	- Engineer.
JULIUS MYWALD,	-	-		Ass't Engineer.

GUARDS.

COLIN BUCHANAN,
JOHN COURTNEY,
H. E. STROUT.

JOHN BECK, Night Watch.
JOHN HARRINGTON, Cook.
ANGIE TAYLOR, Matron.

W. K. WHITE,
ANDREW SANDBERG,
WM. WEST, Driver.
LINCOLN G. HOWE, Gardner.

OF THE

SUPERINTENDENT OF WORKHOUSE.

MINNEAPOLIS, MINN.

OFFICE OF THE SUPERINTENDENT OF WORKHOUSE, MINNEAPOLIS, MINN., January 8, 1890.

To the Honorable City Council of the City of Minneapolis:

Gentlemen—I have the honor to submit for your consideration my annual report as superintendent of the Minneapolis workhouse for the year ending December 31, 1889, being the fourth annual report. In so doing, I take pride in the fact that our record will compare favorably with that of any similar institution, as will be more apparent from the detailed statements and exhibits accompanying this report.

LABOR OF INMATES.

Having been elected by your honorable body on January 9, 1889, I resumed the duties of superintendent three days later, when I found 119 inmates, ninety-nine of whom were males and twenty females, all of whom (as stated in the report of my predecessor) were absolutely idle, save such as were engaged in the routine labor of the prison. My first endeavor was to find some kind of labor for all able to work in which I was cordially aided by your committee on workhouse (Aldermen Sterling, Vogt, Brazie, Billings and Warren) the result was that from January 20 to December 31, with the exception of Sundays and holidays, not more than five days passed without from twenty to seventy men being employed at out-door work, with good results to the city. In this connection, as stated by me in a former report, it should not be supposed that all inmates are able-bodied, or that all who are will do a full day's work: many are unable to work from disability, and others spend their short sentences in recovering from the effects of debauchery, injuries received in street broils, etc., and for many of the inmates the workhouse is practically a hospital. In general terms, prisoners have had no fixed occupation, but have been employed as circumstances dictated, on buildings and repairs, in the farm and garden, in street grading and general improvements, in routine work, and in making and repairing the clothing used on the premises.

THE WORK ACCOMPLISHED.

In order that as many as possible should be profitably employed—no steady employment within the grounds having been provided—it was deemed best to improve such highways within a reasonable distance as could be done without neglecting workhouse matters proper, and as soon as the frost disappeared the breaking of stone in the quarry was discontinued and the work of grading commenced.

Washington avenue was cut through and graded from Thirty-second to Thirty-sixth avenue north, making it a straight road to its intersection with Second street, thus relieving the latter and making Washington avenue much

nearer, easier and favorite road to the city.

Twenty-sixth avenue north was graded from Second to Twelfth street, a distance of twelve blocks, thus opening up a good road in front of Prospect Park and approaches thereto. Second street was graded from Twenty-sixth to Twenty-eighth avenue north, as was Twenty-eighth avenue north from Second to Washington avenue.

The road in front of the workhouse grounds and adjacent thereto being in bad repair it was determined to grade and Macadamize the same from the workhouse line to a point below Shingle creek, The roadway and sidewalk have been graded and when compelled by the frost to desist, some fifteen hundred loads of broken stone had been placed in position. It is safe to say that when completed this highway will be second to none in the state, and one which the people will fully appreciate.

About twelve hundred loads of broken stone have been used in repairing bad spots on Second street, and it is proposed to continue the work as circumstances will permit until we have macadamized driveways on all high-

ways leading to the business centers.

The grounds in front of the workhouse have been enlarged and systematically laid out, considerable sodding done and gravelled walks and driveways made—the beginning of a handsome park of three acres, the residence of the superintendent being moved to the northerly side fronting the park and repaired and painted. When the proposed fountain shall be placed in the center, a low fence in front and arched gateways over the circular driveways—when the ornamental trees have grown and the flower beds completed "Workhouse Park" will indeed be a beauty spot.

For details as to employment of inmates other than as stated herein, showing how all save the sick and crippled have been kept busy, reference is made

to the tables accompanying this report.

PERMANENT IMPROVEMENTS.

The only work under this head other than the removal and repair of the superintendent's residence, was the building of a cottage for the deputy superintendent, the same being nearly ready for occupancy. The mechanics, such as carpenters, plasterers, bricklayers, etc., have been kept employed on necessary repairs to the institution.

FARM AND GARDEN.

The farm report accompanying this will show good results, the only exception being late cabbage, the crop of which was quite poor owing to the dry season, we have not and do not expect to purchase any vegetables whatever—an important item.

DRAINAGE AND WATER SUPPLY.

The matter of draining is a very important one, as a matter of fact other than direct seeping into the ground there is no drainage at the workhouse, attention has been called to this matter in all previous reports yet nothing has beer done. All night soil is of necessity put directly on the land or in shallow cesspools and pumped out on the land from time to time. This should not and need not be. There is a fall of nine feet in the grade from the workhouse to the bridge crossing Shingle creek, fully sufficient for a sewer: if the council will authorize the same most of the work can be done by the inmates and the actual outlay will be small.

The water supply is ample and the quality so far is good; how long it will remain so without proper drainage is an open question. In order to avail ourselves of the supply for better fire protection small hose is needed within the buildings and a reel of large hose on the outside. At present we have to rely wholly on tank pressure, the tanks in the upper parts of buildings being kept full, pipe connection being made therewith. If the hose is furnished arrangements can easily be made for direct pressure from the engine room.

HEALTH OF INMATES.

Very few cases of sickness have arisen at the workhouse although many were sick when they arrived, nearly all speedily yielded to treatment and the general health may be reported good. Our medical expenses have been \$104.94 for the year, or at the rate of two cents per capita per week. We have no regular physician but the city physician or his assistant make visits when called upon.

The first death since the opening of the institution occurred July 6, when Geo. Gundberg, who was received two days previous, died of heart trouble,

superinduced by chronic alcoholism.

LIVING EXPENSES.

The diet of inmates is plain and wholesome, and is not limited as to quantity. That it agrees with them is evidenced by the table of weights attached hereto, inmates gaining an average of three pounds each. While they get plenty to eat they have plenty of work: we cannot look for one without the other. The cost of living, including all employes, was 9.51 cents per capita per day, or about three cents per day less than last year, a reduction due to care exercised in the purchase of supplies and the management of the kitchen. Among the accompanying tables is one showing cost of maintenance for the four years during which the institution has been in operation.

THE WOMAN QUESTION.

Of late considerable has been said as to the advisability of erecting a reformatory for women, largely, I think, by those who have not carefully considered the matter. Without desiring to dampen the ardor of any who strive to do good. I suggest that the consequent cost be considered. It is very doubtful whether more than half a dozen of the many women sent to the workhouse during the year were fit subjects for a reformatory. Where they have been found such the proper measures were taken to transfer them to Bethany Home, the House of the Good Shepherd or to their friends. It seems to be forgotten that we have a matron and that the female inmates are kept apart from the others.

In this connection it should be borne in mind that the increasing number of inmates will necessitate more cell room at an early day, and I recommend the addition of another story to the laundry building. The second story to be fitted up with quarters for the women inmates and a room for the matron. The expense would not be large and all the cell rooms in the old block would

thus be made available for males.

STATISTICAL.

Accompanying this report, as already stated, detailed exhibits will be found which will show matters of more or less interest to those interested in statistics.

The farm proper originally cost the city less than \$18,000, and is now worth. \$75,000. The buildings and improvements cost \$101,079,70, while the personal property is inventoried at \$9,493.

The expenses of the year were nominally \$47,796.20, but the cash outlay was only \$21,815.12, the difference being the value of prison labor.

During the year 1873 males and 124 females, a total of 1,997 prisoners, were received; all but four on commitments from the municipal court, the excep-

tions being from the district court.

Of the total the daily average was 113.73. Nearly two-thirds, or an even 1,200, were committed for drunkenness, 324 for vagrancy and 214 for disorderly conduct. Nearly all of the others, except 124 for petit larceny, were

violators of minor city ordinances.

The native and foreign born were nearly even, or 950 natives and 1,047 foreigners. Sweden takes the lead with 256: Ireland comes next with 201: then comes New York with 194, Norway 188, Minnesota 141 and Canada 122: no other state or kingdom reaching the one hundred mark. The colored people numbered 38 and Indians 2.

The former religious training, according to their own statements, was: Protestants, 909: Roman Catholics, 844: and Hebrews, 3: while 341 dis-

claimed ever having had any.

Only 99 claimed to be temperate, 586 moderate drinkers, and the balance (1,312) intemperate.

Those who could read and write numbered 1,884: read but not write, 35: neither read or write, only 78.

Over one-third, or 718 persons, claimed to have no living relatives.

Two-fifths of the 1,997 commitments were re-committed; 338 were re-committed once, 185 twice, 114 three times, and 333 from five to nineteen times, only one reaching the latter number.

It will be seen from the last above paragraph that there are those who persist in making a home, at short intervals, of the institution. Perhaps legislation which would make the term at least six months after a third

commitment might be salutary.

MISCELLANEOUS.

Religious services have been held nearly every Sunday without expense to the city. As the officiating clergymen donate their time it seems only proper that the necessary expense be paid, and I recommend that two hundred dollars be set aside for that purpose during the year.

Our little library needs replenishing. The city has paid only fifty dollars for the purchase of books during three years and should pay at least as much this year. The value of a library, even though a small one, in such an insti-

tuion need not be dwelt upon.

The discipline among both employes and prisoners has been very good,

cases of infraction of the rules being quite scarce.

Having kept the actual outlay some three thousand dollars inside of the estimate a year ago, I suggest that the same be used for a basement for the new cell block on the south. It would be well if basements were put in under all the cell blocks.

The item of lighting is of moment, especially when the dangers from explosions from oil lamps is considered. An extra dynamo at the pumping station would give all the light needed without any considerable increase in expense.

would give all the light needed without any considerable increase in expense. In closing this report I acknowledge the many obligations I am under to Deputy Superintendent Whelan, and all other officers and employes; one and all have at all times been zealous in the discharge of their several duties and are largely entitled to whatever credit the institution has earned. Nor do I forget the cheerful co-operation at all times received from your honorable body and especially from your committee having general supervision of the Work House.

Respectfully submitted,

Ledger Balances of the Minneapolis Workhouse for the Fiscal Year Ending December 31, 1889

JOHN WEST, Superintendent.

Leager Determines by the Little apolice working and for the Literal	Dr.	Cr.
Printing and stationery	\$68.95	
Tools.	96.74	
Salaries	9,360,71	
Fuel and light	2,151,21	
*Expenses	907.42	
Building and repairs	4,537.66	
Clothing and bedding	3,183.32	
Living.	4.126.52	
Medical expenses.	104.94	
Farm and garden	657.15	
Stock harness and implements	253,35	
Feed.	661.06	
Routine work.	8,077,50	
	374.59	
House furnishing		
Road work	8,181.25	
Cutting ice	101,25	
Improving grounds	2,190.00	
Team work	2,569.50	
Work house collections	193.08	
Bills audited		\$21,815.12
City treasurer		193.08
Teaming		2,569.50
Convict labor		23,218.50
Total	\$47,796,20	\$47,796,20
Bills Audited Each Month.		
Dies Heater Heat How	Dr.	Cr.
January	\$1,719.86	011
February	2,211.66	
March	1,909.80	
April	2.185.98	
May	1.513.51	
June	1.377.93	
July	2,143.31	
	1.371.87	
August	1.345.24	
September	2,351.87	
October		
November	1,910.06 $1,774.03$	
December	1,774.03	
Total	\$21,815.12	
Workhouse collections	193.08	
Convict labor	23,218,50	
Teaming	2,569.50	
Total	\$47,796,20	

\$29,116.38

\$29,116.38

Average N	Number of	Prisoners	in	Workhouse	for	the	Fiscal	Year	Endine	December	31.	1889.
-----------	-----------	-----------	----	-----------	-----	-----	--------	------	--------	----------	-----	-------

Average Number of Prisoners in Workhouse for the Fiscal Year End	ling Decembe	r 31, 1889.
Number	Whole	Daily
of days.	number.	average.
January	3,651	117.77
March 31	3,471 3,884	123.97 125.29
April	3,577	119.23
February. 28 March 31 April 30	3,471	111.96
June 30	2,832	94.50
July	3,148	101.55
August	2,523	81.39
September. 30 October. 31	2,784 4,043	92.80 130.42
November. 30	4,230	141.00
August	3,872	124.90
The state of the s		
Total number of days 365	44 400	
Total days	41,486	113.73
Party average for the year		110,10
Results of Farming.	75	
1,500 bushels potatoes @ 25c	Dr.	Cr.
65 "tomatoes @ 35c	\$375.00 22.75	
54 " beets @ 30c	16.20	
45 " carrots @ 30c	13.50	
50 " onions @ 35e	17.50	
50 " onions @ 35c. 125 " beans @ 1.75. 210 dozen green corn @ 10c. 25 bushels string beans @ 40c.	218.75	
25 hushels string hears @ 40e	21.00 10.00	
20 " green neas (0) noc.	16.25	
300 " field corn @ 35c.,	105.00	
	150.00	
150 Dushels rutabagas @ 25c	37.50	
150 bushels rutabagas @ 25c 40 bushels parsnips @ 30c. 200 squash @ 5c. 100 pumpkins @ 3c. 1,000 heads celery @ 3c. Small vegetables. 1,500 heads cabbage @ 4c.	12.00 10.00	
100 pumpkins @ 3c	3.00	
1,000 heads celery @ 3c	30.00	
Small vegetables	50.00	
1,000 heads cannage @ 4c	60.00	
20 bushels cucumbers @ 40c	6.00 8.00	
2,700 pounds pork @ 5c	135.00	
800 pounds beef @ 5c	40.00	
Pigs sold	101.00	
27 large hogs on hand @ 17.00	125.00 459.00	
Small vegetables. 1,500 heads cabbage @ 4c. 100 heads cauliflower @ 6c. 20 bushels cucumbers @ 40c. 2,700 pounds pork @ 5c. 800 pounds beef @ 5c. Pigs sold. 25 shoats on hand @ 5.00. 27 large hogs on hand @ 17.00. Convict labor. Seed	499,00	\$590.00
Seed		67.15
Seed Balance in favor of farming		1,385.30
Total	\$2,042.45	\$2,042.45
Maintenance of Workhouse for the Fiscal Year Ending Dec	ember 31, 1889 Dr.	
Salaries	\$9,360,71	Cr.
Salaries. Clothing and bedding. Living Feed. Feed and light Medical expenses. Expense. Surplus of credits over expenditures. Profits of farming.	3,183.32	
Living	4,126.52	
Feed and light	661.06 $2,151.21$	
Medical expenses	104.94	
Expense	907.42	
Surplus of credits over expenditures	8,621.20	
Profits of farming		\$1,385.30
Estimated amount of fuel on hand		350.00
Estimated amount of groceries on hand. Estimated amount of clothing and bedding on hand		150.00 $1.250.00$
Teaming		2,569.50
Convict labor		23,218.50
Workhouse collections		193.08
Total.	\$20 116 38	\$20 116 38

Maintenance Excluding Clothing, Salaries, etc		a
Cost of groceries and provisions.	Dr. \$4,126.52	Cr.
Farm produce used. Less groceries and provisions on hand.	650.00	01=0.00
Less cash for board of free labor and county prisoners		\$150.00 158.53
Total	\$4,776.52	\$308,53
Total cost of groceries and provisions	\$4,467.99	(Di)((1,1))
	Q1,10,100	
Whole number of inmates including officers and employes for the year.	46,961.00	
Cost per capita per diem	.09.51	
Cost per capita per week Cost per capita per year.	34.61	
A		
Workhouse Collections for the Fiscal Year Ending Decem	her 31 1889	
The state of the s	Dr.	Cr.
Wood sold	\$3.50	
Hides soldOld iron and rags sold	$\frac{7.33}{7.00}$	
Pigs sold	101.00	
Corn fodder sold	21.50	
Vegetables sold Board of free labor	47.40 25.75	
Board of county prisoners	132.68	
Bills receivable City treasurer		\$153.08
City treasurer		, 193.08
Total	\$346.16	\$346.16
Inventory of Perosonal Property.		
		\$475.00
Office	* * * * * * * * * * * * * * * * * * * *	255.00
Office	* * * * * * * * * * * * * * * * * * * *	255.00 25.00
Office		255.00
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall.		255,00 25 00 28,00 275,00 225,00 1,200,00 207,00 65,00
Office Guar d room. Library Barber shop. Officer's sleeping rooms. Cell block, east wing. Cell block, north wing. Cell block, Female Prisoner's dining hall Officer's mess hall.		255.00 25 00 28.00 275.00 225.00 1,200.00 220.00 207.00 65.00
Office Guar d room. Library Barber shop. Officer's sleeping rooms. Cell block, east wing. Cell block, north wing. Cell block, Female Prisoner's dining hall Officer's mess hall.		255.00 25 00 28.00 275.00 225.00 1,200.00 220.00 207.00 65.00
Office Guar d room. Library Barber shop. Officer's sleeping rooms. Cell block, east wing. Cell block, north wing. Cell block, Female Prisoner's dining hall. Officer's mess hall. Kitchen Laundry. Shoe and tailor shop. Boiler room tools.		255.00 2500 28.00 275.00 225.00 1,200.00 207.00 65.00 378.00 150.00 185.00
Office Guar d room Library Barber shop Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools. Barn including stock and feed		255.00 28.00 28.00 275.00 225.00 1,200.00 207.00 65.00 150.00 150.00 2.050.00
Office Guar d room Library Barber shop Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools. Barn including stock and feed		255.00 28.00 28.00 275.00 225.00 1,200.00 207.00 65.00 150.00 150.00 2.050.00
Office Guar d room Library, Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools. Barn including stock and feed. Tool and wagon house. Cellar. Bake shop.		255.00 25.00 275.00 275.00 1,200.00 207.00 207.00 65.00 150.00 1,500 1,500 1,500 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,500 1,723 1,7
Office Guar d room. Library. Barber shop. Officer's sleeping rooms. Cell block, east wing. Cell block, north wing. Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry. Shoe and tailor shop. Boiler room tools. Barn including stock and feed. Tool and wagon house. Cellar. Bake shop, Storeroom, clothing.		255.00 25 00 25 00 275.00 1,200.00 225.00 1,200.00 207.00 65.00 150.00 150.00 2,750.00 2,750.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00 1,200.00
Office Guar d room Library Barber shop Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools. Barn including stock and feed. Tool and wagon house. Cellar. Bake shop. Storeroom, provisions.		255.00 25 00 275.00 275.00 1,200.00 200.00 207.00 65.00 150.00 150.00 185.00 2,050.00 2,050.00 225.00 1,200.00
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, rorth wing Cell block, Female. Prisoner's dining hall Officer's mess hall Kitchen. Laundry Shoe and tailor shop. Borlier room tools Barn including stock and feed Tool and wagon house Cellar. Bake shop, Storeroom, clothing Storeroom, provisions. Hospital and dispensary		255.00 25 00 28.00 28.00 275.00 225.00 200.00 200.00 378.00 150.00 150.00 2,050.00 2,250.00 225.00 150.00 150.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00
Office Guar d room Library, Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools. Barn including stock and feed. Tool and wagon house Cellar. Bake shop, Storeroom, clothing. Storeroom, provisions. Hospital and dispensary Piggery Lie house.		255.00 25 00 28.00 275.00 1,200.00 225.00 1,200.00 65.00 150.00 150.00 185.00 2,050.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 185.00
Office Guar d room Library, Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools. Barn including stock and feed. Tool and wagon house Cellar. Bake shop, Storeroom, clothing. Storeroom, provisions. Hospital and dispensary Piggery Lie house.		255.00 25 00 28.00 275.00 1,200.00 225.00 1,200.00 65.00 150.00 150.00 185.00 2,050.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 185.00
Office Guar d room Library, Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools. Barn including stock and feed. Tool and wagon house. Cellar. Bake shop. Storeroom, clothing. Storeroom, provisions. Hospital and dispensary. Piggery Liee house. Root house. Carpenter shop.		255.00 25 00 28.00 275.00 1,200.00 225.00 1,200.00 65.00 150.00 150.00 2,050.00 22,050.00 150.00 125.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 185.00 185.00 185.00
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools. Barn including stock and feed. Tool and wagon house. Cellar. Bake shop, Storeroom, clothing. Storeroom, provisions. Hospital and dispensary Piggery Iee house. Root house. Carpenter shop.		255.00 25 00 28.00 275.00 1,200.00 225.00 1,200.00 65.00 150.00 150.00 2,050.00 22,050.00 150.00 125.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 185.00 185.00 185.00
Office Guar d room Library. Barber shop. Officer's sleeping rooms. Cell block, east wing. Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry. Shoe and tailor shop. Boiler room tools. Barn including stock and feed. Tool and wagon house. Cellar. Bake shop Storeroom, clothing. Storeroom, provisions. Hospital and dispensary. Piggery Ice house. Root house. Carpenter shop. Total. Summary. Real estate, sixty acres.		255.00 28,00 275.00 1,200.00 1,200.00 207.00 65.00 150.00 185.00 22,050.00 723.00 225.60 150.00 1,200.00 185.00 1,200.00
Office Guar d room Library Barber shop Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools Barn including stock and feed. Tool and wagon house. Cellar. Bake shop. Storeroom, provisions. Hospital and dispensary. Piggery Liee house. Root house. Carpenter shop. Total. Real estate, sixty acres. Cost of buildings.		255.00 25 00 28.00 275.00 1,200.00 207.00 65.00 150.00 185.00 2,050.00 723.00 150.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, east wing. Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools. Barn including stock and feed. Tool and wagon house. Cellar. Bake shop, Storeroom, clothing. Storeroom, provisions Hospital and dispensary. Piggery Iee house. Root house. Carpenter shop. Total. Real estate, sixty acres. Cost of buildings. Improvement on buildings, convict labor and material.		255.00 28,00 275.00 1,200.00 1,200.00 207.00 65.00 150.00 185.00 22,050.00 723.00 225.60 150.00 1,200.00 185.00 1,200.00
Office Guar d room Library Barber shop Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools Barn including stock and feed. Tool and wagon house. Cellar. Bake shop. Storeroom, provisions. Hospital and dispensary. Piggery Liee house. Root house. Carpenter shop. Total. Real estate, sixty acres. Cost of buildings.		255.00 25 00 28.00 275.00 1,200.00 205.00 1,200.00 207.00 65.00 150.00 185.00 2,050.00 2,050.00 150.00 150.00 150.00 150.00 185.00 2,050.00 150.00 185.00
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, east wing. Cell block, rorth wing. Cell block, rorth wing. Cell block, rorth wing. Cell block, rorth wing. Cell block state wing. Officer's mess hall. Kitchen. Laundry. Shoe and tailor shop. Boiler room tools. Barn including stock and feed. Tool and wagon house. Cellar. Bake shop, Storeroom, clothing. Storeroom, provisions. Hospital and dispensary. Piggery Iee house. Root house. Carpenter shop. Total. Real estate, sixty acres Cost of buildings. Improvement on buildings, convict labor and material. Personal property per inventory. Total.		255.00 25 00 28.00 275.00 1,200.00 225.00 1,200.00 65.00 150.00 185.00 2,050.00 150.00 150.00 150.00 150.00 150.00 150.00 150.00 185.00 150.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools Barn including stock and feed. Tool and wagon house Cellar. Bake shop, Storeroom, clothing Storeroom, provisions. Hospital and dispensary Piggery Iee house. Root house. Carpenter shop. Total. Real estate, sixty acres. Cost of buildings. Improvement on buildings, convict labor and material. Personal property per inventory Total. Statement of Prisoners Remaining in Prison December	31, 1889.	255.00 25 00 28.00 28.00 275.00 1,200.00 207.00 65.00 150.00 185.00 2,050.00 2,050.00 2,050.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00 185.00
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools Barn including stock and feed. Tool and wagon house Cellar. Bake shop. Storeroom, glothing. Storeroom, provisions. Hospital and dispensary. Piggery Lee house. Root house. Carpenter shop. Total. Real estate, sixty acres Cost of buildings. Improvement on buildings, convict labor and material. Personal property per inventory Total. Statement of Prisoners Remaining in Prison December Males.	31, 1889.	255.00 25 00 25 00 28.00 275.00 1,200.00 207.00 207.00 150.00 207.00 207.00 207.00 207.00 207.00 207.00 150.00 205.00 205.00 150
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools Barn including stock and feed. Tool and wagon house Cellar. Bake shop. Storeroom, provisions. Hospital and dispensary Piggery Ice house. Carpenter shop. Total. Real estate, sixty acres Cost of buildings. Improvement on buildings, convict labor and material. Personal property per inventory Total. Statement of Prisoners Remaining in Prison December Males. Females.	31, 1889.	255.00 25 00 25 00 28.00 275.00 1,200.00 207.00 207.00 150.00 150.00 2050.00 2
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools Barn including stock and feed. Tool and wagon house. Cellar. Bake shop. Storeroom, glothing. Storeroom, provisions. Hospital and dispensary. Piggery Liee house. Root house. Carpenter shop. Total. Real estate, sixty acres Cost of buildings. Improvement on buildings, convict labor and material. Personal property per inventory. Total. Statement of Prisoners Remaining in Prison December Males. Females. Total.	31, 1889.	255.00 25 00 25 00 28.00 275.00 1,200.00 207.00 207.00 150.00 207.00 207.00 207.00 207.00 207.00 207.00 150.00 205.00 205.00 150
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing Cell block, north wing Cell block, Female. Prisoner's dining hall Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools Barn including stock and feed. Tool and wagon house. Cellar. Bake shop. Storeroom, clothing. Storeroom, provisions. Hospital and dispensary. Piggery Lice house. Root house. Carpenter shop. Total. Statement of Prisoners Remaining in Prison December Males. Females Total. Number of Prisoners Received During the Year	31, 1889.	255.00 25 00 25 00 28.00 275.00 1,200.00 207
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing. Cell block, north wing Cell block, Female. Prisoner's dining hall. Officer's mess hall. Kitchen. Laundry. Shoe and tailor shop. Boiler room tools Barn including stock and feed. Tool and wagon house Cellar. Bake shop, Storeroom, clothing. Storeroom, provisions. Hospital and dispensary. Piggery Iee house. Root house. Carpenter shop. Total. Summary. Real estate, sixty acres. Cost of buildings. Improvement on buildings, convict labor and material. Personal property per inventory Total. Statement of Prisoners Remaining in Prison December Males. Females. Number of Prisoners Received During the Year Males.	31, 1889.	255.00 25 00 28.00 28.00 28.00 275.00 20.0
Office Guar d room Library Barber shop. Officer's sleeping rooms Cell block, east wing Cell block, north wing Cell block, Female. Prisoner's dining hall Officer's mess hall. Kitchen. Laundry Shoe and tailor shop. Boiler room tools Barn including stock and feed. Tool and wagon house. Cellar. Bake shop. Storeroom, clothing. Storeroom, provisions. Hospital and dispensary. Piggery Lice house. Root house. Carpenter shop. Total. Statement of Prisoners Remaining in Prison December Males. Females Total. Number of Prisoners Received During the Year	31, 1889.	255.00 25 00 28.00 28.00 28.00 275.00 20.0

Number	Dischar	ged During	the Year.

By expiration of sentence. By payment of fine	1,640
By payment of fine	138
By sentence suspended By transferred to hospital.	181
By transferred to House of Good Shepard.	3
By death	ĭ
By escape	$\tilde{9}$
By habeas corpus	7
m	7 000
Total	1,988
Females.	1,854 134
remares	194
Total	1.988
1770	2,000
Number Remaining in Prison December 31, 1889.	
· ·	440
Males Females	118 10
Females	10
Total	128
Nowhen Descined Usek Wooth	
Number Received Each Month.	

	Males.	Females.	Total.
January	158	6	164
February	147	4	151
March	128	14	142
April	170	7	177
May	153	. 14	167
June	132	8	140
July	152	10	162
August	123	7	130
September.	168	11	179
October	201	21	222
November	196	19	215
December	145	3	148
Total	1,873	124	1,977

Number Diveharged Fach Month

Number Dischargea Each Month.			
	Males.	Females.	Total.
January	145	18	163
February	133	7	140
March	163	7	170
April	139	9	148
May	182	11	193
June	134	9	143
July	161	13	174
August	130	10 .	140
September	148	10	158
October	172	9	181
November	186	24	210
December	161	7	168
Total	1.854	134	1.188

Number Remaining at End of Each Month.

	Males.	Females.	Total.
January	112	8	120
February	126	5	131
March	91	12	103
April	122	10	132
May	93	13	106
June	91	12	103
July	82	9	91
August	75	6	81
September	95	7	102
October	124	19	143
November	134	14	148
December	118	10	128

By whom those Received During the Year were Committed.

Total I I I I I I I I I I I I I I I I I I I	Males.	Females.	Total.
District court, Hennepin county	1,869	124	1,993
Total	1.873	124	1.997

101			
Temrs of Sentence of Prisoners Received Duri	na the Ve	av	
Temis of Sentence of Prosoners Accessed Duri	Males.	Females.	Tota
Five days	15	ii	15
Ten days Fifteen days	543 513	11	554 524
Twenty days	189	15	204
Twenty-five days	360	47	407
Forty days	2	ï	3
Forty-five daysSixty days	3 129	···i9	3 148
Ninety days	104	19	123
Ninety days	$\frac{10}{2}$	1	11 2
Six months			
Total	1.873	124	1,997
Age, when Committed.			
Under twenty years			120
Between twenty and twenty-five years			348 493
From thirty to thirty-five years			335
From thirty-five to forty years			288
From forty to fifty years			258 122
Sixty years and over			33
Total			1,997
Religious Training.			
			744
Roman Catholics. Protestants Hebrew Without religious training.			909
Hebrew		• • • • • • • • • • • • •	3 341
Total			1,997
Habits of Life.			
			00
Claim to be temperate Moderate use of liquor Admit themselves to be Intemperate.			586
Admit themselves to be intemperate			1,312
Total			1,997
,			
Color.			
White		• • • • • • • • • • • • • • • • • • • •	1,957 38
Indian			2
Total			1.007
			1,991
Education.			
Could read and write			
Could neither read or write			78
Total			1.007
			1,001
Previous Commitments.			4 40W
Received for the first time	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1,127 338
Recommitted oncetwicetwice		· · · · · · · · · · · · · · · · · ·	185
three times			114 65
·· four times. ·· five times.			61
six times			50 20
eight times.			17
" eight times." " nine times."			
			1
" eleven times. " twelve times. " thirteen times.			2 1 1 1 1 1 1 1
" thirteen times fourteen times			1
" fifteen times			î
·· sixteen times			1
eighteen times			1
" nineteen times			. î
Total			1,997
			.,

	Social .	Relations.	
Married and having no children. Widows and widowers having chil Widows and widowers having no c Unmarried and having both parer Unmarried and having one paren	ldren. childrents liv t livin	273 90 91 91 91 91 92 93 93 93 94 95 96 97 97 98	5 7 6 1 1
Total			7
Hea	th on	Admission.	
Poor health		1,52 46 10	7
Total			7
	Nat	ivity.	
Austria	4	Mississippi	
Bohemia	$\frac{2}{1}$	Missouri. Mexico.	22
Canada	122	New York	194
Connecticut	8	New Jersey	10
California	7	New Jersey. New Hampshire Newfoundland.	5
Denmark District of Columbia	$\frac{12}{10}$	Nova Scotia	3
England	94	Nova Scotia New Brunswick	$\frac{2}{7}$
Finland	14	Norway	188
France	6	North Carolina	57 57
Florida Germany	72	Ohio Poland	2
Georgia	1	Pennsylvinia	43
Holland	6	Russia	1
HungaryIndiana	19 19	Rhode Island,	3 2
Illinois	85	Sweden	256
Iowa	58	Switzerland	4
Ireland	201	Scotland	29
Italy Isle of Man	8	Tennessee Vermont	5 16
Kentucky	13	Virginia	6
Kansas	7	Wisconsin	85
Luxumberg.	1	Wales West India	4 2
Maine	56	West India	
Massachusetts	59	Total	1,997
Michigan	31	Native born	950 1,047
Maryland	141	Foreign born	1,047
		Total	1.997
Pres	vious (Occupation.	
Actors	3	Carriage painter	2 3
Agents	14	Conductors	
ArtistsBakers	17	Chemists	38
Barbers	29	Dressmakers	1
Bartenders	- 8	Druggists	6
Brick burners	1	Dog catchers	1
ButlersBridge builders	1	Engineers Expressmen	23
Brakemen	33	Firemen	11
Builders	1	Farmers	49
Boilermakers	19	Flour packers. Fitters.	4
Bricklayers	13	Gasfitters	
Brewers	1	Gardeners	3
Bookbinders	2	Glass blowers	2
Blacksmiths	26	Grooms	34
Butchers	23	Gunsmiths	2
Boxmakers	1	Harnessmakers	2
Carpenters	62	Hotel runners	1
Cabinetmakers Carpet layer	5 5	Housekeepers Housemovers	32
Candy maker	1	Horseshoers	1
Carriage smith	2	Hotelkeepers	1
Cardrivers	1	Hackmen	1
Carriage washers	1 50	Heaters.	1
Clerks	24	Helpers	4
Clerks Cigarmakers	14	Ironworkers	4
Coopers	15	Janitors	4

Journalists	7	Stonecutters	r
Jewelers	i	Switchmen	22
Laborers	846	Saloonkeepers	1
Laundresses	24	Shoemakers	38
Lath sawyers	1		1
	5	Scavengers	4
Lathers	1	Sailors	
Looking-glass workers	. 1	Students	4
Lumber sorters		Salesmen	10
Linen twisters	1	Steamfitters.	8
Linemen	1	Seamstresses	12
Lumbermen	29	Silverplaters	1
Machinists	15	Shinglepackers	1
Millers	10	Storekeepers	3
Miners	7	Sailmakers	1
Meatpackers	1	Scalers	1
Millwrights	1	Sawyers	1
Musicians	2	Silk weavers	1
Molders	13	Teamsters	59
Newsboys	1	Tobaconnists	8
Nurses	4	Tailors	24
No occupation	10	Tanners	1
Oilers	1	Tinners	11
Plumbers	13	Telegraph operators	4
Peddlers.	4	Teachers	2
Papermakers	2	Turners	ĩ
Printers	14	Veterinary surgeons	î
Pilots	î	Waiters	40
Plasterers	9	Wood turners.	1
Painters	45	Waitress	1
Pressmen	1	Well diggers	i
Porters	7	Woodworkers	4
Prostitutes	4	Wagonmakers	1
Puddlers	9		1
	ĩ	Weavers	1
Roofers	1	Watchmakers	1
Reporters.	1	Wool spinners	1
Shoecutters	10	m-4-1	4.002
Stonemasons	12	Total	1,997
Ship carpenters	2		
	Tandana a	()#anaa	
		Offense.	
Assault	3	Indecent exposure	7
Assault and battery	17	Keeping house of ill-fame	11
Cruelty to child	1	Lewd and indecent conduct	-77
Cruelty to animals	1	Obtaining money under false pre-	
Common prostitute	. 3	tense	1
Contempt of court	2 3	Petit larceny	124
Default of bonds to keep the peace	3	Peddling without a license	2
Drunkenness	1,200	Using obscene language	2 2
Disorderly conduct	214	Violating city ordinance	16
Fornication	16	Selling liquor without a license	2
Fast driving	3	Vrgrancy	324
Found in house of ill fame.	33	Wife beating	1
Gambling	2		
Grand larceny, second degree	$\tilde{2}$	Total	1,997
orana miceny, secona acgree	~	20002	1,001

Table Showing the Gain and Weight of Prisoners During their Term of Imprisonment.

TIME IMPRISONED.	Number weighed.	Increase.	Decrease.	Increase over decrease.	single	Largest single decrease	incre	
Ten daysFifteen daysTwenty daysThirty daysSixty daysNinety days	381 167	1,195 1,278 697 1,495 246 154	184 171 76 260 74 78	1,011 1,107 621 1,235 172 76	15 17 20 23 16 28	8 12 7 10 9 16	22 22 23 23 22 22	8 14 12 8 6
Total	1,416	5,065	843	4,222				

Table Showing the Current Monthly Expenses for the Year Ending December 31, 1889, and the Average Weekly Cost per Capita

Average week-\$3.66 9 3,183,32 1.126.52 68.95 \$21,692.62 2,151.21 9.360.71 Total. \$1,540.75 370.81 **December.** 16.189, November. 81, 78.69 \$2,258.32 October. 11.80 756.66 83.88 33.05 \$1,479.25 35.61 September. \$1.439.43 .tsuguA \$1,745.56 99.54 95.29 For Each Item. July. [73.75 \$1,555.98 98.91 Jane. \$1,595.17 May. 90.79 348.11 8.79 \$2,270.46 .liaqA 850.13 March. 91 658.52 372.02 870.49 \$2,320.07 February. \$1,955.99 January. Total..... Printing, stationery Clothing, bedding Farm and garden House furnishing Expense..... Medical expense. Fuel and lights. ITEMS. Salaries

Table Showing Prison Labor, When and Where Performed, Number of Days and Amount per Day, for the Year Ending December 31st, 1889.

lı .	1	1 40	0	10	0	0	10	10	0	,,		_	,0	
Totals.	Amt.	\$1,370.25	1.800.00	1,923.25	2,529.00	2,643.50	2,104.25	1,998.75	1,793.00	1,901.25	2,623.50	2,694.50	2,406.75	\$25,788.00
To	Days.	1,647	046,2	9,319	$3,132^{2}_{3}$	3,296	2,582	2,416	2,165%	2,280%	3,237	3,411	3,026	31.762
Cutting ice.	Amt.	\$101.25	:	:	:	:	:		1			:		\$101.25 31.762
Cutti	Days	135	:	:	:	:	:	:	:	:	:	:		135
Teaming.	Amt.	\$175.50	156.00	241.00	235.00	224.00	219.50	244.50	220.50	241.00	256.50	177.50	178.50	804 \$2,569.50
Tea	Days	1 14	48	2.0	7.	0.2	69	-	69	9.5	Z	55	33	108
Improving grounds.	Amt.		:	:	\$375.00	405.00	240.00	167.25	182.25	261.00	292.50	967.00	:	2,920 \$2,190.00
Impr	Days.		:	:	500	240	320	993	243	348	390	356		2,990
Making and repring cloth'g.	Amt.	\$243.00	163.50	109.50	175.50	121.50	133.50	101.25	82.50	127.50	147.75	177.75	141.75	2,300 \$1,725,00
Making p'ring o	Days.	728	318	146	75	162	178	135	110	170	197	237	189	2,300
	Amt.	31.50	388.50	521.25	863.00	756.00	637.50	00.069	617.25	529.25	1,054.50	1,039.50	1,053.00	10,908% 88.181.25
Public road.	Days.	3	218	695	1,150%	1,008	820	026	£	705%	1,406	1,386	1,404	10,90814
Building and repairs.	Amt.	\$121.50	157.50	165.75	214.15	283.50	206.25	168.75	123.75	131.25	195.00	342.75	243.00	3,138 \$2,353.50
Bui a rej	Days	162	310	29.1	386	378	275	225	165	175	096	457	334	3,138
Farm and garden.	Amt.		:		\$58.50	81.00	00.06	92.25	83.75	111.75	72.75	:	:	\$590.00
Farn	Days		:	:	82	108	130	123	11123	149	26	:		786%
tine rk.	Amt.	\$697.50	934.50	885.75	607.50	772.50	577.50	534 75	483.00	499.50	604.50	00.069	790.50	10,770 88,077.50
Routine work.	Days.	930	1.246	1,181	810	1,030	770	TIS	644	999	908	920	1,054	
Months.		January	February	March	April	May	June	July	August	September.	October	November	December	Total.

Comparative Statement Showing Maintenance of Workhouse for the Years 1886, 1887, 1888 and 1889.

ITEMS.	18	86.	188	37.	188	88.	188	89.
	Dr.	Cr.	Dr.		Dr.		Dr.	Cr.
Salaries	\$3,669.33		\$8,803.29				\$9,360.71	
Clothing	2,189.09		2,448.50				3,183.32	
Living	1,449.56				3,154.66		4,126.52	
Feed	213.32		401.35		675.67		661.06	
Fuel and light			2,958.04		868.05		2,151.21	
Medical expenses.			168.17		112.95			
Expense			689.98		722.13		907.42	
Surplus of credits								
over expendit'rs	393.01		1,234.88		1.143.24		8,629,20	
Profits of farming		\$214.10		\$508.88		\$1,219.21		\$1,385,3
Estimated am't of								
fuel on hand		760,00		975.00		318.25		350.0
Estimated am't of								3.7040
		2.100.00		1.950.50		600.00		1,250.0
Estimated am't of		W.100.00		2,00000		000100		2,40000
groe's on hand		194.00		120.00		165.50		150.0
Teaming								2,569.5
Convict labor				14 727 20		11 747 00		23,218.5
W'kho'se collet'ns								193.0
w kno se conce ns		10.40		002.00		~ 1 0.50		155.0
Total	\$9,906.33	\$9,906,33	\$21,077.93	\$21,077.93	\$15,940.41	\$15,940.41	\$29,116.38	\$29,116.3

Comparative Statement of Maintenance Excluding Salaries, Clothing, etc., for the Years 1886, 1887, 1888 and 1889.

ITEMS.	1886	18	887	18	388	188	89
Cost of groceries and prvs'n Farm produce used Less groceries and provisns	151.00	Dr. \$4,373.72 400.00	Cr.	Dr. \$3,154.66 500.00	Cr.		Cr.
on hand			\$120.00 677.98 797.98	3,654.66	\$266.50 24.43 290.93	4,776,52	\$150.00 158.53 308.53
Total cost of groceries and provisions	1,600.56	3,975.74		3,363.73	4,467.99		
Whole number of inmates including officers and employes for the year Cost per capita per diem Cost per capita per week Cost per capita for the year	12,810.00 .12.49 .87.43	.11.73 .82.11		.86.03	.09.51 .66.57	4	

Comparative Statement of the Average Number of Prisoners in Workhouse for the Years 1886, 1887, 1888 and 1889, as follows:

	100 100 100 100 100 100 100 100 100 100													
		1886.			1887.			1888.			1889.	1889.		
Month.	of days.	Whole number.	age.	of days.	Whole num- ber.	ily aver-	of days.	Whole number.	age.	of days.	Whole number.	ily aver-		
	No.	Wh	Dail	No.	Wh	Dail	No.	Wh	Dail	No.	N A	Daily age.		
January February				31 28	1,966 1,631	63.42 58.22	31 29		114.55 129.52	31 28		117.77 123.97		
March				31	2,144 1,382	69.16 46.00	31 30	3,682 2,316	$\frac{118.77}{77.02}$	31 30	3,884 3,577	125.29 119.23		
May. June July				31 30 31	1,486 1,934 1,893	47.94 64.47 61.00	31 30 31	2,180 1,950 2,439	65.00	31 30 31	2,832	111.96 94.50 101.55		
August	30	1,463	25.70 48.77	31 30	1,725 2,080	55.65 69.33	31	$2,168 \\ 1,618$	69.97 53.77	31	2.523 2.784	81,39 92,80		
October November December.	$\frac{31}{30}$	1,522 1,597 2,085	49.00 53.23 67.25	31 30 31	2,561 2,699 2,700	82.61 89.97 87.00	31 30 31	1,866 2,083 2,718	69,43	31 30 31	4.230	130,42 141,00 124,90		
Total	152		49.00		24,201	66.00		30,327	83,00		-	113.73		

Comparative Statement of Number of Inmates Received for Four Years, 1886-7-8-9.

		1886		1887.				1888.		1889.		
Month.		Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
January February March April May June July August September October November December	71 104 83 114 103	3 3 9	71 107 85 117 112	78 62 106 61 106 125 129 160 127 132 146 139	4 2 7 4 6 4 13 9 5 17 3	\$2 64 113 65 112 129 142 169 132 149 149 142	175 145 106, 102 121 112 155 132 106 128 149 148	3 2 10 3 5 9 3 10 10 8 6 23	121 158 142 116 136 155 171	158 147 128 170 153 132 152 123 168 201 196 145	6 4 14 7 14 8 10 7 11 21 19 3	164 151 142 177 167 140 162 130 179 222 215 148
Total	475	17	492	1,371	77	1,448	1,579	92	1,671	1,873	124	1,997

Comparative Statement of Inmates Discharged for the Four Years, 1886, 1887, 1888 and 1889.

	1886.			1887.				1888.		1889.		
Months.		Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
January				79 68 101	6	79 74 105	121 165 116	5 2 4	126 167 120	145 133 163	18	163 140 170
April				93 82 113	6 3 7	99 85 120	147 107 127	8 4	155 111 134	139 182 134	911	148 193 143
July August September	31 85		31 88	135 155 133	8 7 6	143 162 139	145 161 101	8 9	149 169 110	161 130 148	13 10 10	174 140 158
October November December	106 84 108		106 85 117	122 138 133	16 4	126 154 137	124 119 133	12 6 8	136 125 141	172 186 161	9 24 7	181 210 168
Totals	414			1.352	71	1,423	1,566	77	1,643	1,854	134	1,988

Comparative Statement of Inmates Remaining in Prison for the Years 1886, 1887, 1888 and 1889, at the End of Each Month.

1886				1887			1888		1889			
Монтн.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
January February March April May June July August September October November December				61 55 60 28 52 64 58 63 57 70 74 80	7 3 6 4 7 4 9 11 10 19 10 9	68 58 66 32 59 68 67 74 67 89 84 89	138 118 108 63 77 62 72 43 48 52 82 99	3 3 9 4 5 7 6 8 9 5 5 20	141 121 117 67 82 69 78 51 57 57 87	112 126 91 122 93 91 82 75 95 124 134 118	8 5 12 10 13 12 9 6 7 19 14	120 131 103 132 106 103 91 81 102 143 148 128

OF THE

SUPERINTENDENT OF POOR,

Of the Qity of Minneapolis.

POOR DEPARTMENT.

SUPERVISORS.

Hon. E. C.	Вавв,		-	-	-	-	Pres	ident.
ALDERMAN	JOHN F.	McGe	WAN,	-	-		1st	Ward.
6.6	VERNON	M. SM	итн,	-	-	-	2 d	Ward.
6.6	GEO. A.	DERNA	AМ,	-	-		3d	Ward.
6.6	S. B. Lor	YE, -	-	-	-	-	4th	Ward.
66	HENRY	W. Br	AZIE.				5th	Ward.
٠	JOHN A.	SWAN	ISON,	-	<u> </u>	-	6th	Ward.
"	Јони Н.	PARR	Υ, -	. ii _	- , -		7th	Ward.
66	F. E. HA	NSON,	-	-	-	-	8th	Ward.
6.6	JAMES E						9th	Ward.
"	VINCENT	REE	VES,	-	-	-]	10th	Ward.
6.6	J. W. PE							Ward.
6.6	ABRAM S	S. ADA	MS,	-	-	- 3	11th	Ward.
6.6	JAMES S.	GRAY	7,]	13th	Ward.
C. L. SNYDI	ER, ~ -	-	-	Supe	rinter	ade	nt of	Poor.
LARS OWRI	Ε, -		(Clerk	to Su	per	inte	ndent.

OF THE

SUPERINTENDENT OF POOR,

MINNEAPOLIS, MINN.

To the Honorable the City Council of the City of Minneapolis:

GENTLEMEN—In compliance with law, I herewith respectfully submit for your consideration the ninth annual report of the department of poor, giving in detail the work and expenditures during the year ending December 31, 1889:

African	Italian	7
American. 1,022 Bohemian 113	Jewish	
Canadian 81	Polish. 7	
Danish	Portuguese	
Dutch	Scotch	
	Spanish	
	Swedish 1,181 Swiss 2"	
German. 672	Welsh	
Hungarian 10	Russian	
Indian 3	THE WITH PARTY AND THE PARTY A	-
Irish	Total	
Number of visits made by superintendent	1,24	2
Number of cases where relief has been granted Number of orders given for groceries, 2,746—an	2,000 nounting to \$7.271.40	0 0
Number of orders given for wood, 1,630—amount	ating to	3
NUMBER OF PATIENTS IN HO		
	Bethany Home-	
Homeopathic	Adults	1
Northwestern 5	Infants	7
St. Mary's 1	-	_
Deaconess 1	Total 87	6
NUMBER SENT TO HOSPI		
City hospital	St. Barnabas	2
	Bethany Home—Adults 35	
Northwestern	Infants 20	()
St. Mary's 7	Total600	0
NUMBER NOW IN HOSPITALS		
	UNDER CHARGE OF CITT.	
(lity hounital : '40	C+ Damohac	1
	St. Barnabas	1
Homeopathie 4	Bethany's Home-Adults 4	
Homeopathic 4 Northwestern 3 Deaconess 2	Bethany's Home—Adults	0
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2	Bethany's Home—Adults	0
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 Hospital	Bethany's Home—Adults	0
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 Homeopathic Hospital	Bethany's Home—Adults	0
Homeopathic	Bethany's Home—Adults	0 4
Homeopathic	Bethany's Home—Adults	0 4
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 Homepathic Hospital Homepathic Northwestern Deaconess St. Mary,s St. Barnabas Bethany Home For conveyance Number of inmates of poor house January 1, 18	Bethany's Home—Adults	0 4
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 Homeopathic Hospital Northwestern Deaconess. St. Mary.s. St. Barnabas Bethany Home For conveyance. Number of inmates of poor house January 1, 18 Number sent to poor house during year. Number now in poor house under charge of cit.	Bethany's Home—Adults	1
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 Homeopathic Hospital Northwestern Deaconess. St. Mary.s. St. Barnabas Bethany Home For conveyance. Number of inmates of poor house January 1, 18 Number sent to poor house during year. Number now in poor house under charge of cit.	Bethany's Home—Adults	1
Homeopathic	Bethany's Home—Adults	1
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 Homepathic Hospital Homepathic Northwestern Deaconess St. Mary.s St. Barnabas Bethany Home For conveyance Number of inmates of poor house January 1, 18 Number sent to poor house during year. Number now in poor house under charge of cit Poor house expenses. Number of visits made by Drs. Chase and Full Popysicians at hospitals.	Bethany's Home—Adults	1
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 Homepathic Hospital Homepathic Northwestern Deaconess St. Mary.s St. Barnabas Bethany Home For conveyance Number of inmates of poor house January 1, 18 Number sent to poor house during year. Number now in poor house under charge of cit Poor house expenses. Number of visits made by Drs. Chase and Full Popysicians at hospitals.	Bethany's Home—Adults	1
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 Homepathic Hompital Homepathic Deaconess St. Mary,s St. Mary,s St. Barnabas Bethany Home For conveyance Number of inmates of poor house January 1, 18 Number sent to poor house during year Number now in poor house under charge of city Poor house expenses Number of visits made by Drs. Chase and I physicians at hospitals. At other places Number of burials furnished.	Bethany's Home—Adults	14
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 Homepathic Northwestern Deaconess. 5 Hospital Hospital Hospital Hospital Northwestern Deaconess. 5 St. Mary.s St. Barnabas Bethany Home For conveyance Proceedings of immates of poor house January 1, 18 Number of inmates of poor house January 1, 18 Number now in poor house during year Number now in poor house under charge of cit Poor house expenses. Number of visits made by Drs. Chase and Fubrysicians at hospitals.	Bethany's Home—Adults	4
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 St. Mary's 2 Homepathic Hospital Homepathic Hospital Northwestern Deaconess St. Mary,s St. Barnabas Bethany Home For conveyance Home For house during year Home For Visits made by Drs. Chase and For physicians at hospitals Home For	Bethany's Home—Adults	4
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 St. Mary's 2 Homepathic Hospital Homepathic Hospital Northwestern Deaconess St. Mary,s St. Barnabas Bethany Home For conveyance Number of inmates of poor house January 1, 18 Number sent to poor house during year Number now in poor house under charge of city Poor house expenses. Number of visits made by Drs. Chase and I physicians at hospitals At other places Number of burials furnished. Number of persons furnished transportation to Bills allowed by board of supervisors of poor	Bethany's Home—Adults	4
Homeopathic 4 Northwestern 3 Deaconess 2 St. Mary's 2 Homepathic Hospital Homepathic Northwestern Deaconess. St. Mary,s Mary,	Bethany's Home—Adults	3

A List of Rills Allowed by Surgernison	e of P	oor, from January 1, 1889, to December 31	1000
H. H. Molloy.	\$5.00	T. K. Gray	
J. W. Field.	3.00	Crocker & Thompson	2.50 4.00
T. K. Gray	4.15	Crocker & Thompson	4.00
M. R. Curtiss	13.25	Crocker & Thompson	4.25
F. V. Cook	8.00	C. A. Heffelfinger	10.00
Mrs. Cryster	4,00	St. Louis Drug Store	4.00
H. H. Mollov	5.00	Crown Drug Store	4.50
Goodyear Rubber Co	.68	Matilda Ryberg	10.00
Minneapolis Stamp Co	2.00	Mrs. McCahn	14.29
H. H. Molloy	12.20	Mrs. Archibald	20.00
B. R. Thaxter	234.64	St. Mary's Hospital	20.00
James Cowning	7.50	Repair of ambulance	40.00
Peter Johnson	39.00	Medicine expenses of Dr. Hall	183.28
H. H. Molloy	11.50	Incidental expenses of superintend-	
C. Himmelsbach	8.50	ent of poorPrinting and stationery	258.04
Aug. Wetelstate	47.25	Printing and stationery	80.57
John Olson.	43.50	Total	1 1 10 00
H. A. Swanberg	32.00		1,140.60
A List of Money Refunded to Superint	endent (of Poor from January 1, 1889, to December 3.	1, 1889
Jens Brobach	\$8.00	Lena Thomas	4.00
James Bann	25.31	Arthur Johnson	6.00
Anna Anderson	16.00	Mary Wilton	5.50
George Upton	3.50	R. Draper	5.33
Fred Johnson	1.66	Barney	5.00
Delage	27.00	John Morgan	22.14
Wm. Williams	5.50	Lobetsky	2.31
John O'Brien	8.26	Belle Morrow	5.00
Mike Coughlin	4.00	Rosa Prue	5.00
Mrs. Ayers	2.00	John Larson	38.76
Harry Bergott	14.15	Chas. Clausen	2.00
Clifford	4.50	Norman Nelson	.50
Emil Johnson	5 00	John Morgan.	21.43
Inar Inarson	10.00	Mrs. BagshawCarrie Nelson	4.00 1.00
Chas. Karner	9.13	Alice Taylor	6.00
Fritz Bulow.	6.00	J. Edelstein	4.00
Wm. Kjelstad	2.00	John Morgan.	22.14
Wm. Knight	2.81	Henry Miller	2.00
Anton Getz	2.00	John Morgan	21.43
Mrs. Schuster	15.00	Girl at Bethany Home	10.58
Cathrine Fox	10.00	Pauline Wold.	6.50
* Gunder Whitfield	3.55	-	
Mrs. Cummings.	7.00	Total	\$401.99
Mayer Ranfield	4.50		

In closing the year's work, I deem it proper to state that 805 families have been aided during the year, which makes an average of 257 per month. The highest number was in February, which reached 472: lowest number was in September, which decreased to 155. Number of families with children sent to other places of support were 63. Number of families deserted by husbands leaving their families in destitute circumstances will average 10 per cent. of the total number aided. Ninty-one families, by diligent investigation and advice, have been placed in self-support. The indigent, aged and infirm we shall always have with us, and these we cheerfully give aid and comfort, either in hospitals or at their homes, as their several cases require. Upon the whole we have worked diligently to fulfill the arduous duties incumbent upon us, and have sent none away empty that, after investigation, were, in our opinion, worthy. Frequently good advice seemed to be of more worth than other aid. The estimate in money of the former superintendent, granted by the city council for the year 1889, was \$36,000. The actual amount expended was \$27,261.85. Include, if you please, the salaries of superintendent and clerk, \$2,400, which makes the total expenditure of the poor department \$29,661.85, leaving \$6,338.15 unexpended, which is covered back to the general fund of the city treasury.

In closing this annual report I desire to say to the honorable mayor and each and every member of the board of supervisors, I am under obligation for the hearty aid and sympathy extended to me, the uniform support given me in carrying out the city charity toward the deserving poor.

Respectfully submitted,

C. L. SNYDER, Superintendent of Poor and Clerk to Board of Supervisors.

The report being read and adopted by the board of supervisors of the poor, it was unanimously resolved that the board hereby express confidence in the able and efficient manner in which Superintendent Snyder has discharged the arduous duties of his office.

OF THE

CITY HOSPITAL,

Of the City of Minneapolis.

FOR THE FISCAL YEAR ENDING DEC. 31, 1889.

COMMITTEE OF THE CITY COUNCIL ON HEALTH AND HOSPITALS.

ALDERMAN H. W. BRAZIE, M. D.

" E. G. POTTER.

J. C. Sterling.

----, Superintendent. C. A. CHASE, M. D., City Physician. P. M. Holl, M. D., Asst. City Physician. MRS. L. H. BARD, Matron.

INTERNES.

C. H. Jones,

A. M. RIDGEWAY,

R: C. DUGAN.

NURSES.

PAULINE WOLD, ELIZABETH G. DUNCAN, MRS. L. V. BUXTON, CLARA GILBERTSON, G. W. DAHLQUIST.

OF THE

CITY HOSPITAL.

MINNEAPOLIS, MINN.

To the Honorable the City Council of the City of Minneapolis:

Gentlemen — Herewith is respectfully submitted our first report (the second annual report) of the city hospital for the year ending December 31, 1889. For information regarding the operations of the city hospital we would respectfully call your attention to the accompanying tabulated statements, as shown by the records on file at the hospital.

The number admitted was	523 2
The number of births	50
Making the total under treatment for the year ending December 31, 1889 Of this number, 463 were discharged, 63 died, and 50 remained under treatment at the close of the year December 31, 1889.	575
The largest number in hospital at any one time	57
The smallest number in hospital at any one time.	34
Daily average number of patients per day	44 28
Average number of days per patient. The total number of days of hospital care.	
The death rate was about 10 per cent.	. 10,100
The number of patients treated in the medical department	396
The number of patients treated in the surgical department.	179
Total. The whole number of patients treated during the year being 575, and the average number of days per patient being 28, makes a total of 16,100 days, or 2.300 weeks. The total expense of the city hospital for the year 1889, as shown by the accounts of the city comptroller was	\$ 12,337,32
Less cost of permanent improvements.	388.21
By using the comptroller's figures, the gross cost of patient per week was	5.19
while the accounts kept at the hospital only include bills for the year 1889; de-	
ducting the difference between his accounts and ours	\$795.91
The total expense of the hospital was. Less cost of permanent improvements.	$\begin{array}{c} 11,541.41 \\ 388.21 \end{array}$
Net cost of hospital for year. The gross cost per patient was. The net cost per patient was	5.01

We qualified and entered upon our duties as city physician, January 12, 1889. We found the city hospital prospering in the hands of an efficient corps of officers and employees, and Dr. J. H. Dunn, our predecessor, rendered us every possible courtesy and assistance in our new duties, which we sincerely appreciated.

Judging from Dr. Dunn's report (the first annual report of the city hospital, which see) that the institution had been a decided success financially and in all respects, we took charge feeling that the city hospital was no longer an

experiment.

We determined to spare neither time nor expense in making the surroundings of the inmates as pleasant and comfortable as possible in every particular, especially to give them the very best care and the very best medical and dietetic treatment. Whether we have been successful or not in our efforts we leave that for others to decide.

We found the female ward having very few modern improvements and the building with no protection whatever in case of an accident by fire. By action of the council, at an expense of \$129, the much needed improvements were made and the building supplied throughout with stand pipes and hose attached which will reach to any part of the hospital in case of need, and a prompt response from the fire department is assured from the fact that there would be no delay in sending in an alarm as there is an American District Telegraph alarm box of easy access in the building.

But although the present building may be ever so well kept in repair and supplied with modern improvements, and the management be ever so unquestionable, yet the best interests of the patients are compromised on ac-

count of the poor construction and ill ventilation.

We need a new city hospital, and we trust the talk and thought of abandoning the plan of the city caring for its own sick in an institution of its own, and of again farming them out to other hospitals has been forever settled; for such a course would be unwise, non-progressive and presumptuous. This question has been discussed by every large city in the world and the conclusion has invariably been reached that to care for the city's sick elsewhere than in its own city hospital, was extravagant from an economic standpoint and prejudicial to the best interests of the patients. We believe the time is ripe for action on this question and we cannot too strongly urge that immediate action be taken by your honorable body for the consummation of some plan whereby grounds suitably located shall be secured and a suitable building be erected which shall be an ornament to our prosperous and rapidly growing city. We are certainly no less progressive in many respects than our rival neighbor, St. Paul, but we certainly are far behind the times as compared with her in regard to a city hospital. She has already erected, by way of beginning, a structure at the cost of \$50,000, and has appropriated an additional \$100,000 for extending the plant.

My recommendation would be that you first determine just what kind of a

My recommendation would be that you first determine just what kind of a building in every particular is wanted, and then consult some reliable architect as to the cost. At the present time we really need a building which will accommodate at least seventy-five patients, suitably provided with laundry, kitchen, &c., and so arranged that fever, surgical, obstetrical and

contagious diseases could be properly classified and isolated.

As to the expenses of the city hospital, we would state that the purchase of medical supplies and surgical appliances has been left to our discretion, while all other expenditures have been made by the Committee on Health and Hospitals. It has been the aim of the management to secure the very best of everything at the least possible expense. And we are satisfied that the affairs have been managed as economically as in any other institution of a like grade; which may be verified by reference to reports from other Hospitals.

Our death rate is very low, being only about ten per cent. You will realize this more fully when you consider the class of cases admitted to the city hospital. Many of the cases brought in by patrol are moribund; many cases of phthisis are in the very last stage, and typhoid cases in the second and third week of the disease—some dying within twenty-four hours of admis-

sion.

Our record on typhoid fever is almost unparalleled. Of the 135 cases treated you will notice from the tabulated statements that only twelve died, making the death rate only 8.9 per cent. Pennsylvania hospital in a record for twenty years, 1862 to 1881, shows the death rate to have ranged from 8.3 to 37.5 per cent. Only one year, 1863, was the rate less than 10 per cent.

This record speaks louder than words for the efficiency of our corps of nurses—the more so because in an unusually large proportion of the cases pneumonia existed as a complication—for in no disease is good nursing more indispensable than in typhoid fever. This remark seems the more fitting from the fact that the statement has been publicly made by some unfriendly to our city hospital that the patients did not receive proper care.

Dr. P. M. Holl, the assistant city physician, and myself have made about 5.000 visits on the sick and injured, at their homes, city hospital, city hall, police station, workhouse and jail. We have found in Dr. Holl a very able assistant, and we desire to express our confidence in him and our apprecia-

tion of his untiring and conscientious devotion to the arduous duties of his office. We also appreciate most fully the hearty co-operation of all asso-

ciated with us in the work at the hospital.

The young lady representatives of Flower Missions, Mission Bands, Christian Workers and Young Ladies' Christian Temperance Union of the city, ever thoughtful of the sick in hospital, administer to their wants in a manner most becoming the sick room by bringing luscious fruits, lovely flowers and cheering words. They are always welcome, and their acts of kindness are fully appreciated by the unfortunate sick and all interested in the welfare of the city hospital.

We most heartily thank all the members of the medical profession for professional courtesies and valuable services rendered in consultation; among whom we think it fitting to make special mention of some who have kindly and gratuitously rendered us timely assistance in their specialties: Drs. Bell, Abbott, Dunn, J. E. Moore, Allport and Spratt, Jones and Laton.

In closing we wish to extend our thanks to the Superintendent of the Poor, with whom we have been most intimately and pleasantly associated; the Committee on Health and Hospitals, the Supervisors of the Poor and the council, for their co-operation with us in furthering the interests of the institution with which we are connected.

Very respectfully yours,

CHARLES A. CHASE,

City Physician.

Monthly Report of City Hospital from January 1, 1889, to December 31, 1889.

Decemper.	28 28 28 28 28 28 28 28 28 28 28 28 28 2
November.	24
October.	50 94 94 94 95 157 157 167 163 173 173 173 173 173 173 173 17
September.	46 98 98 98 43 11,486 212,2-7 15,8-46 954,40 38,33 11,33 11,33 11,33
Jsugny.	174 2-7 174 2-7 174 2-7 112 32-9 884.05 884.05 1.98 1.98 1.98 1.98
July.	28 28 28 28 20 20 20 20 20 20 20 20 20 20 20 20 20
Јипе.	45 88 11.16 6 11.17 167.4-7 145.39 850.51 5.08 850.51 1.53 1.53 1.53 1.53 1.53 1.53 1.53 1
.VsM	25.27 H 55.28
April.	25.25 25.25 25.25 26.25
Матећ.	25.58
February.	151 5-7 151 5-7 151 5-7 151 5-7 16-7 16-7 16-7 16-7 16-7 16-7 16-7 16
.Vanuary.	50 81 81 81 81 81 82 140 100 100 100 100 100 100 100
	Patients in hospital on first of month. Tytiens admitted during month. Discharged during month. Discharged during month. Discharged during month. When the start of following month. Number of deaths during the month. Number days treatment during month weeks. Weeks to start of the start of th

Medical Cases.

	Male.	Female.	Total.	. Male.	Female.
Typhoid fever	85	50	135	Threatened abortion	1
Acute articular rheumatism	33	7	40	Obstruction of bowels	1
Phthisis pulmonalis	17	5	22	Eczema and rothlen	1
Alcoholism, acute	10	4	14	Measles 1	
chronic	2	1	3	Scrofula 1	
Acute pneumonia	13	1	14	Thermic fever 1	!
Bronchitis, acute	7 3	4	11	Nervous prostration 1	
ehronie	3		3	Endocarditis	1
nsanity	8	2 2	10	Constipation	1
Diarrhœa, acute	6		8	Miscarriage	1
ehronie	4	1	5	Cervical adenitis 1	'
Paralysis, local	9	1	10	Lumbago 1	
Valvular disease of heart	3	4	7	Gastro-enteritis 1	
General debility	5	2	7	Chronic laryngitis 1	
Pleuritis, acute	4	1	5	Neuralgia, frontal 1	
. chronic	1		1	intercostal 1	
onsilitis, acute	2	3	5	Empyema 1	
Delirium tremens		1	5	Infantile paralysis	1
Peritonitis, acute	3	2	5	Dementia 1	
chronic		1	1	Uterine displacement	1
Asthma, chronic	4		4	Cirrhosis of liver 1	
Ialaria	4		4	Dysentery, acute 1	
Cephalalgia	1	2	3	Inanition 1	
Pregnancy		3	3	Gastric ulcer	1
Dyspepsia	2	1	3	Cholera morbus 1	
ebricula	2	1	3	Carcinoma of stomach	!
General tuberculosis	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1	3	Spinal anæmia	1
Opium habit	2	1	3	Acute "	1
Epilepsy	2	1	3	Meningitis chronic cerebral 1	
figraine	3		2	Menorrhagia	1
lydatid of liver	2		2 2 2	Melancholia 1	
Iningitis, cerebral				Hystero epilepsy	1
spinal	1		1	Myelitis 1	
ystitis	1	1	2	Acute pernicious anæmia 1	
fysteria		1	1	Rheumatoid arthritis	1
Purpura rheumatica		1	1	Cases unclassified, infants, etc. 4	4
Paralysis of bladder		1	1		
Thronic cystitis and sciatica	1		1	Total	

Surgical Cases.

	a:	Female.	-11		4	ale.	
	Male.	em	Total.		Male.	Female	
			_		_		-
Fracture, ribs	1		1	Fracture, meta carpal	1		
ribs,sc'lp,wd.& hernia	1		1	leg, compound patella,skull,crush'd	4		
humerus radius and ribs	2		2	fingers, etc	1		
skull	2		2	os innominatum and	1		
fibula	1		2	' multiple injuries	1		
clavicle (old)	2		2 2 1	Dislocation, old hip	1		
femur	1	1	2	thumb	1		
potts	1		1	Contused wound, knee	1	• · · ·	
olles, comp'd nasal & sprained knee	1		1	Incised wound, eyelid	1		
vertebrae	2		2	side	i		
inferior maxillary	4		2 4	multiple of face	1		
colles	1		1	neck and back	1		
'ontused wound, elbow	1		1	Lacerated w'd, scalp	1		
head	1		1	head and face	1		
side	1 1	• • • •	1	Gunshot w'd, shoulder	1		
back face		[1	abdomen	1		
scalp	1		1	face	1		
scalp face and head	3		3	leg	2		
forearm	1		1	face and hand	1		
leg	1		1	Syphilis	5	5	1
face, head and	-1		- 1	Abscess, epigastric	1		
neckankle	1		1	perityphlitieorbital and enucleat'n	1		
Synovitis, wrist	4	1	5	of eye	1		
ankle	2		3	inguinal		1	
knee	3			hepatic			1
elbow	1		1	peroneal		1	
Amputation, fingers	3		3	mastoid	1		
arm	1		1	ischio-rectal Hæmatocele	1		
Stricture urethra	···i		2	Cataract (operation).	4		
Gonorrhœal rheumatism	4		4	Septicaemia		1	Н
Ulcer, chronic, of leg	5	3	8	Punctured wd., ear	1		
cornea	3		3	Gonorrhœa	2	4	
)phthalmia	1	1	2	Talipes			
Cellulitis, leg	1		1	Hydropyo nephrosis Bubo	1		
Concussion of brain	$\frac{1}{2}$	1	3	Paraphymosis	1		
njury to spine	ĩ		1	Necrosis, malleoli		1	
Webbed fingers	î		ĩ	os calcis	1		
Phymosis	1		1	sternum	1		
Chrombosis, leg	1.		1	Sprained ankle	4		
nternal injuries	30		3	Purulent conjunctivitis	1		
Alexander's operation		1 9	1 0	Inflamed eye Pott's disease of the spine	2 4		
Ovariotomy			2 2	Periostitis, leg	1		
Operation for anteflexion		ĩ	ĩ	Varicose veins	î		
Iterine fibroid		1	1	Hernia and bubo	1		
Gonorrheal pelvic cellulitis		. 2	2	Flat foot	1		
Vesico-vaginal fistula			1	Strangulated hernia		2	
Subluxation knee	1 1		1	Entropium	1	1	
Combunalo							
CarbuncleOsteo sarcoma	1	1	2	Total	162	16	

AG	E OF 1	PATIENTS.	
Under twelve months From one to ten years From ten to twenty years From twenty to thirty years From thirty to forty years	$\begin{array}{c} 4 \\ 4 \\ 51 \\ 260 \\ 121 \end{array}$	From forty to fifty years From fifty to sixty years From sixty to seventy years From seventy to eighty years Total	80 38 15 2
NATION	ALITY	OF PATIENTS.	
Swedes Americans Norwegians Irish Germans English Danes Canadians Russlans French Negroes. Poles	181 96 91 80 51 18 10 7 7 6 4	Scotch Icelanders Bohemians Hungarians Roumanian Persian Hollander Chinese Italian Newfoundlander	3 3 2 1 1 1 1 1 1 1 575
OCCUPA	ATION	OF PATIENTS.	
Laborers.' Domestics. Seamstresses. Carpenters. Laundresses. Cooks. Firemen Clerks Coopers. Lumbermen Teamsters Nurses. Barbers. Waiters Tailors. Machinists. Sallors. Moulders Blacksmiths. Teachers Tramps. Peddlers. Butchers. Schoolboys Agents. Students Engineers Book keepers Hostlers. Masons. Druggists. Stone cutters.	250 23 8 14 4 1 9 5 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4 2 3 3 3 3 3 3	Painters. Shoemakers Farmers Housekeepers Printers Photographers Horseshoer. Publisher. Electrician Bartender. Woodcarver Spinner. Collector. Rubber stamp maker. Switchman Polisher Artist. Plumber Bookbinder Soldier. Cash boy Coachman Drayman Cabinet maker. Dentist Brakeman. Watchman Watchman Veterinary surgeon Conductor. Factory girl. Saloon keeper Porter	8 8 8 7 7 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Lutheran	RELIG	GION. Universalist	. 3
Roman Catholic None Methodist Baptist Presbyterian Episcopalian	505 124 57 40 18 15 5	Congregationalist. Christian church Salvation army Jewish	575
SOC	IAL CO	ONDITION.	
Single	427	Widowed	(52)
Married	86	Total	57.5

Number of Deaths and Causes.

	Male.	Female.	Total.		Male.	Female.	Total.
Tyhoid fever	10	2	12	Fracture of skull	2		1
General tuberculosis	6		6	Oedema of lungs.	î		î
Pneumonia	5		5	Chronic cerebral meningitis	1		1
Peritonitis	3	1	4	Infantile paralysis]
Valvular disease of the heart	1	1 2 2	3	Carcinoma of the stomach]
Shock from burnShock from being crushed in	1	2	3	Traumatic gangrene of leg (R. R. injury)	1		
railroad accident	1	2	3	Hæmorrhage and suppurative			-
Shock from amputation for ca-	1	~	"	synovitis	1		
pillary hæmorrhage from burn	1	2	3	Septicæmia and suppurative			
Spinal meningitis	2		2	synovitis	1		1
Cerebral meningitis			2	Inanition			
Potts' disease of the spine	2			Bright's disease	1		
Cirrhosis of the liver	2	1	2 2	Total	53	10	6

OF THE

INSPECTOR OF BUILDINGS,

Of the Qity of Minneapolis.

DEPARTMENT OF INSPECTOR OF BUILDINGS.

JOHN M. HAZEN, - - - Inspector of Buildings.
CLAYTON R. HAZEN, - - - Clerk of Department.
J. W. WOODMAN, - - - Assistant Inspector.
JOHN ALMQUIST, - - - Assistant Inspector.
JACOB SITZE, - - - Plumbing Inspector.

OF THE

INSPECTOR OF BUILDINGS,

MINNEAPOLIS, MINN.

To the Honorable the City Council of the City of Minneapolis:

Gentlemen—In compliance with the provisions of a resolution adopted by your honorable body, November 1, 1889, I have the honor to submit the fifth annual report of this department, embracing the fourth quarterly report for 1889, together with a recapitulation of the year's business.

PERMITS.

All person engaged in the performance of the following classified work are required by city ordinances relating to the construction, repairs and removal of buildings in the city of Minneapolis, to obtain a permit from the inspector of buildings before proceeding thereon.

We have issued from this department during the year 1889, 6,339 permits,

classified as follows:

For brick and stone stores
For veneered store buildings
For wood store buildings
Miscellaneous buildings, includes churches, schools, office buildings
opera houses and halfs
Brick and stone dwelling houses
For veneered dwelings
Two story and over, frame dwellings
One and one-half story frame dwellings
One story frame dwellings.
For barns of wood, brick and stone
Additions, alterations and repairs
Permits for moving buildings
Permits to do plumbing

By an examination of the above statement, it will be seen that the work of the department for this year, compares favorably with that of previous years.

The promiscuous erection of buildings without regard to the material used, or manner of construction, prior to 1884, was the immediate cause of directing attention to the necessity for a stringent building law, which was adopted by the city coucil, February 28, 1884, and has been amended from time to time

through authority of the council, up to the present.

We have in our "fire limits" a special law governing the construction and removal of buildings. It regulates the thickness of walls, height of stories, kind of roof, division and partition walls, etc., that fire occurring shall be confined to the premises. That every building erected or enlarged within the fire limits, shall be built of brick, stone, iron or other incombustible material. The repairing of wooden structures, in the fire limits are a constant source of annoyance, as by our laws, necessary repairs not affecting the construction of the external or party walls, roof, chimneys or stairways, may be allowed. In many instances repairs are constantly going on from year to year until the old wooden structure is entirely replaced, leaving a wooden building of inflammable and dangerous character, where it would be impossible to obtain a permit to erect a like building.

Improvements and the erection of new buildings on leased land call for the most rigid inspection on the part of the department, and while they conform to the ordinance in every particular, many very cheap buildings are put up. While I do not censure the parties building—for they are anxious to get a place to do business in at as little expense as possible—yet I do think it detrimental to the best interests of as beautiful a city as Minneapolis is, for

owners of vacant property on our business streets to lease it for a year or two

to be covered with one-story unsightly shanties.

Examinations are the daily outside work of the department and consist of the constant supervision of all buildings in course of construction, alteration or being repaired, dangerous buildings, unsafe chimneys, buildings damaged by fire, fire escapes and stand pipes, smoke houses, area walls, brick ovens, dangerous brick walls, plumbing and drainage, and when the number of square miles (53) contained within the city limits are taken into consideration and the number of assistants who have all this territory to traverse, making a detailed statement of each and every examination, beside those made at the request of our citizens, which are not included in this report, it becomes a task of no mean proportion, in connection with the responsibility attached.

The whole number of examinations made during the year 1889 is 4,147, and

classified as follows:

Of new buildings in process of erection	2,500
Examination of plumbing	1,275
Of reported dangerous plumbing	308
Of final examinations of new plumbing Of freight and passenger elevators examined	16

PLUMBING.

The work of this department is increasing rapidly, with a general desire on the part of the plumbers to do good work, and with few exceptions have joined hands with this and the health department, in enforcing the law and leaving their work in the best sanitary manner. Am pleased to say from personal observation and reliable information, Minneapolis does as good sanitary plumbing as any city in the world, none excepted. It frequently occurs that numerous tests and inspections have to be made on a single job. but generally one test and one examination is all that is required. The first thing is a permit to do the plumbing, the next is the "roughing in"—that means the placing of all the iron pipe within the building, the calking of every joint that is to be calked, then the openings are sealed and five pounds air, or water pressure applied, if found satisfactory the inspector notes the same on the plumber's permit. Next is the inspection of the finished work, and in accordance with the ordinance, the plumber gets a certificate to that effect, which releases him from further responsibility in the matter. Right here I wish to say that I believe the department would be greatly benefitted if the examination and licensing of plumbers came under the supervision of this department.

The whole number of plumbing permits issued duing the year 1889, is 1,428

the estimated cost of which is \$321,088.

Number of examinations of plumbing	1,275
Examination of reported dangerous plumbing	48
Tests of soil pipe and drain with water	308
Tests of soil pipe and drain with air	612
Finished work, final examination made	308

ELEVATOR AND HOIST-WAYS.

By a complication of numerous difficulties elevators and hoist-ways have not had the rigid inspection heretofore they ought to have had. However, during the last half of the past year a perfect system has been inaugurated for the inspection and recording of the same, date when inspected, condition at the time of inspection and by whom inspected, but for want of an opportunity, the inspector's time being taken up by other work, but few have been examined up to December 31, 1889.

I would recommend that a fee of one dollar be charged and a certificate be

given and placed in the cab of the elevator.

There has been sixteen freight and passenger elevators inspected and recorded as in good order.

INJURED.

A. Hageboeck, injured on the small hoist-way in the Schultz block, Washington avenue north between Second and Third avenues, June 28, 1889. No safety appliance. He stepped on the platform and it dropped to the bottom with him.

FIRE ESCAPES.

The best, safest and most direct means of egress from burning buildings which were constructed without any reference to the requirements in such cases, demands and receives the most thoughtful consideration of this department. This question is of the utmost importance and should command the thoughtful consideration of our architects and builders.

Fire escapes which demand the strength and agility of an athlete for their use, have no virtues that can commend them for the use of women and children. Consequently where there are women and children employed or living on the third floor, or above, there should be an iron stair with iron hand-rail leading to the second floor at least.

This department has served 110 notices to put up fire escapes and about 40

have been erected up to January 1, 1890.

PROSECUTIONS.

The general disposition to maintain the law, on the part of our builders and architects, has materially aided this department in the discharge of its duties. It has been the aim of the department to settle all questions in dispute amicably and to the satisfaction of all concerned, and in the majority of cases has been successful. However, the payment of the following fines has had a salutary effect upon the plumbers and builders generally:

VIOLATIONS.

May	. E. M. Pike. Violation of plumbing ordinance. Plumbing done by a tinner and no permit. Fined.	\$5.00
9	John Lee. Violation of building ordinance. Defective chimney. Sentence suspended by defendant complying with ordinance.	φm.cσ
	Charles Olson. Violation of house-moving ordinance. Left building stand-	10.00
2-	ing in street. Fined. L. Groff. Violation of building ordinance. No permit. Sentence suspended by defendant complying with the law.	
	N. L. Cooper. Violation of building ordinance. No permit to build shed. Fined	5.00
	A. Dinsmore, violation of building ordinance. No permit. Fined	5.00
29	in fire limits. Sentence suspended. F. A. Dunsmore. Violation of building ordinance. No permit. Guilty.	
	Sentence suspended. J. Q. Stone. Violation of building ordinance. No permit. Fined A. Dinsmore. Violation of building ordinance. No permit. Guilty. Sen-	10.00
	tence suspended. J. P. Buchanan. Violation of building ordinance. Wood engine-house in	
June 1	fire limits. Warrant held over him. 2. John B. Bottineau. Violation of building ordinance. Stove-pipe out	
o une x	through the roof. Sentence suspended, giving defendant time to comply with ordinance.	
	John O'Brien. Violation of building ordinance. Stove-pipe run out through	
1-	roof. Sentence suspended. David Kreklau. Violation of building ordinance. Building area wall with-	
	out permit. Sentence suspended.	
3	. E. C. Cauvet. Violation of plumbing ordinance. Doing work without permit. Sentence suspended.	
	H. Kelley. Violation of plumbing ordinance. Doing work without permit.	10.00
	Fined E. Bufton Violation of plumbing ordinance. Doing plumbing without	10.00
	permit. Fined	10.00
	T. P. Healey. Violation of building ordinance. Building chimney wall four inches. Sentence suspended.	
July 9	. J. Frank Collom. Violation of building ordinance. Building without	
	permit. W. H. Lang. Violation of building ordinance. Building without permit.	
	Fined	5.00
18		20.00
29		
	permit. Fined	10.00
	without fire-proof shaft or automatic doors. Discharged on promise of	
Aug. 11	putting on fire-proof doors. D. M. Gilmore, Edward E. switzer, John Campbell. Violation of plumbing	
	ordinance. Dismissed.	
12	W. T. Savory. Violation of building ordinance. Putting elevator in Syndicate block without permit. Fined	10.00
13	J. E. Plummer. Violation of building ordinance. Chimney on brackets.	.4176(70)
Oct. 19	Dismissed. W.W. Sykes. Violation of plumbing ordinance. Plumbing a church with-	
	out a permit. Fined costs	3.00

Oct. 17.	A. Abercromby, Violation of plumbing ordinance. Plumbing hotel without permit. Fined	10,00
	Hurley & Jimmison Violation of plumbing ordinance. Plumbing hotel without permit. Fined.	
Dec. 18	. C. C. Lyford. Violation of building ordinance. Enlarging barn in fire	10.00
	Hoops & Gorham. Violation of building ordinance. Failed to comply with	10.00
	notice to put up a fire escape on Windsor hotel. Continued. W. W. Huntington. Violation of building ordinance. Failed to comply	
23	with notice to put on fire escape on hotel building. Continued. C. C. Lyford. Violation of building ordinance. Building combustible	
		10.00
NO		10.00
	limits at No. 606 Hennepin avenue. Fined	5,00
	August Scheiby. Violation of building ordinance. Discharged.	

The issuing of permits to use the street for the purpose of building properly belongs to this department, and the time to get such permit is when

the permit to build is issued.

The setting of steam boilers for heating or other purposes, building of brick ovens, setting of coffee roasters, building of smoke houses, passenger or freight elevators, all should require a permit before commencing such work, which would save this department a vast amount of work and enable us to locate them at once, that they might receive proper inspection during construction.

The value and importance of the work, and the compiled reports of the department, quarterly and annually, are little understood by the general public. The average business man in his daily rush merely glances at the headings and goes on.

The practicability of our building laws are such, that all who have to do

with it, understand each point and heartily commend it.

The duties of the department are constantly increasing, which is due, in a great measure, to the strict attention given to details by assistants. The system employed in accomplishing our work is most satisfactory. A rigid enforcement of the building laws secures safety against fire, and a prevention of swift destruction when on fire, and it means safety and durability. Very respectfully,

J. M. HAZEN.

Inspector of Buildings.

OF THE

INSPECTOR OF LIGHTS,

Of the Qity of Minneapolis.

A. P. ANDERSON,

Inspector.



OF THE

INSPECTOR OF LIGHTS,

MINNEAPOLIS, MINN.

To the Honorable City Council:

GENTLEMEN—In compliance with the resolution, I herewith submit my annual report for the fiscal year ending December 31, 1889.

Month.		ELECTRIC.		GAS.		OBE GAS.	WHEELER REFLECTOR.		SUN VAPOR.	
		В.	A.	В.	A.	В.	Α.	В.	Α.	В.
January	5	\$2.05	100	\$6.50						
February	101	41.41	150	9.95						
March	94	38.55	224	14.56	44	\$3.52	16	\$1.28	2	
April	82	33.62			13	1.04			2	\$.1
May	45	18.60	4	.26	13	1.04	6	.48	8	.6
June	218	98.82			28	2.24	13	1.04	18	1.4
July	111	45.50			13	1.04	40	3,20		
August	487	254.00	2	.13	14	1.12	5	.40	6	.4
September	701	304.00			21	1.68			- 8	.6
October	336	138.00			40	3.20	8	.64	- 8	.6
November	305	125.00					8	.64	8	.6
December	634	260.00			16	1.28	18	1.44	16	1.2
Total		\$1,359.55		\$31.40		\$16.16		\$9.02		\$6.4

Various items in the bills, amounting in all to \$74 and specified as lamps illegally broken, have, upon investigation, been found to be without foundation and the amount not allowed.

By careful investigation I have found errors to the amount of \$450 in the number of electric lights reported by the Brush Electric Company as having

been lighted.

The total saving to the city, for the year, in addition to a better service, due to diligence in watching the lights, has been, as will be seen by the above report, \$1,946.52. Respectfully submitted,

A. P. ANDERSON. Light Inspector.

[&]quot;A"—Number of lights out.
"B"—Amount deducted from bill.



OF THE

INSPECTOR OF MEATS,

Of the Qity of Minneapolis.

MEAT INSPECTION DEPARTMENT.

D. T. DAVIES, - - - - Inspector. WYMAN COSTIGAN, - - Assistant Inspector.

OF THE

INSPECTOR OF MEATS.

MINNEAPOLIS, MINN.

To the Honorable City Council of the City of Minneapolis:

In compliance with the request of the city council I have the honor to herewith submit my annual report, showing the conditions of the meat markets, slaughter houses, bakeries and other places in the city for the preparation of human and sale food that come under my inspection, and the kinds and amount of meat, fish, bread and other food condemned during my adminis-

tration in 1889, beginning February 1.

Before giving the summary below I desire to make the following comments and recommendations. Minneapolis has to-day eleven wholesale meat markets, two hundred and twenty-eight retail meat markets, fifty-three bakeries, two slaughter houses and forty-one commission houses, besides a number of fish markets and other small places for the sale of human food that come under my immediate inspection as city meat inspector. These places, especially those most in need of inspection, have been visited during the year either by the inspector or his deputy as frequently as possible. There has been a strong and persistent tendency on the part of many to crowd into the market unhealthy, unwholesome and deleterious meat, fish, fowls, vegetables, fruit and other provisions intended to be sold for human food, during the past eleven months. We have condemned fifty-seven thousand six hundred and fifty-two and one-half pounds $(57.652\frac{1}{2})$ of meat, veal, salt beef, fresh beef, fresh pork and smoked ham being the kinds most condemned; the figures show also that we have condemned a greater amount of beef than pork: this is due to the fact that the amount of beef that is used in our market is far in excess of the amount of pork: a large percentage of our condemning is of meats infected with paracites and meat from animals which have died from lingering diseases or accident or natural causes, also all meats tainted or in a state of putrefaction, or meat from animals slaughtered while in a heated state, heated from driving or otherwise and not allowed to cool before killing: this has a strong tendency to hasten decomposition and make the meat unwholesome, or meat which is packed for the market before it has had sufficient time to cool, or meat that is packed too tightly, the result is premature decay. Young calves, too young for human food, some not more than five days old, are constantly being brought in for market, and this too in spite of our ordinance requiring that they shall be at least five weeks old before being offered for the maket, but the enforcement of this ordinance and the too frequent visits of the inspector, have very nearly if not entirely dispensed with this practice. The inspector considers no kind of meat so dangerous as bad sausage, bad sausage meat or bolognas, the waste scraps and decayed meat too often ground into them cause them to quickly mould and decay and become entirely unfit for human food, if they are not from the first. As to the bakeries, some of them are kept very neat and wholesome and it is a pleasure to visit them, while others, some of the smaller, poorer ones are especially in hot weather and fly time too greasy and filthy to be permitted to keep open; such places were made to at once clean up or quit business. All bread and bread stuff condemned on account of shortage of weight or

mould or other causes, is not spoiled by the inspector but is seized and confiscated to the city, and the inspector would herein respectfully recommend that all bread condemned for a shortage of weight and seized by the inspector be turned over to the superintendent of the poor for his general distribution.

I also recommend the building of a public city slaughter house, to be under the management and control of the city meat inspector; and in closing I will only add that when we consider the amount of the unwholesome and poisonous food necessarily condemned and saved from the mouths of innocent people it will be difficult to estimate its value to Minneapolis, or how much it has contributed to the health of her people.

Summary of Meat, Etc., Condemned from February 1 to December 31, 1889.

	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Veal Chickens Turkeys. Fish. Mutton Lamb. Pigs feet. Salt pork Fresh pork Fresh beef. Salt beef. Pork sausage. Bologna sausage. Liver sausage Vienna sausage. Summer sausage. Smoked hams. Smoked shoulder Smoked shoulder Smoked bacon Bologna meat. Dressed poultry Venison. Dressed ducks Dressed deese. Cooked corn beef.	80 40 353 376 185		80	9012	64 282 330		99 607 174 200 225 736 853 135 382 40 246	637 38 253 154 30 155 218½ 645 1.881 30 566 15		427 505 163 105 40 90 60 90 628 2,225 78 44 81 55 65 1,592	350 3.339 352 347 80 100 91 1.674 780 68 38 145	11,973 6.351 1.448 1.948 2.775 6.88 254 1.575 3,488½ 6.285 11,043 30 717 94 2.229 165 2.45 1.598 1.650 2.45 1.598 47 47
Total	6,487	1.670	3,567	3.7631/2	3,175	9,014	4,512	4.951	5,547	6.198	8,768	57.6521/2

Rabbits, 19; prairie chickens. 21; wild ducks, 13; blackberries, 57 cases; grapes. 88 baskets; tomatoes, 45 boxes.

Respectfully submitted,
DANIEL T. DAVIES,
Inspector.

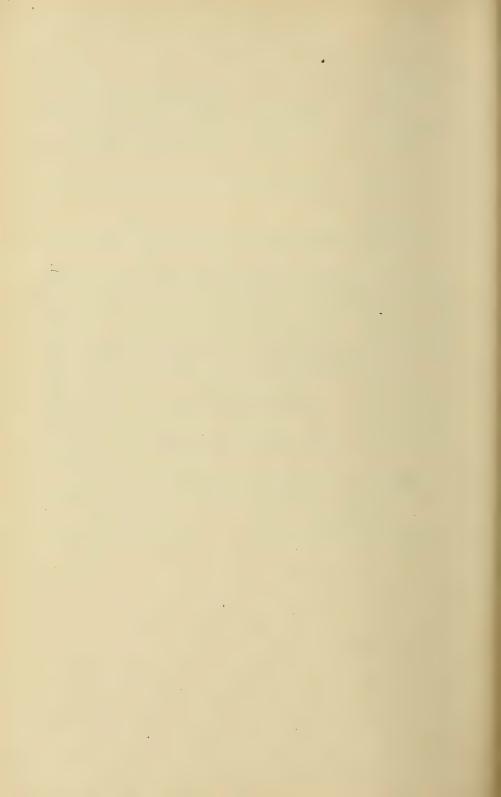
OF THE

CITY SEALER OF WEIGHTS

AND MEASURES,

Of the Qity of Minneapolis.

A. G. Mosher. - - - - City Sealer.



OF THE

SEALER OF WEIGHTS AND MEASURES.

MINNEAPOLIS, MINN.

MINNEAPOLIS, MINN., January 15, 1890.

To the Honorable City Council:

Gentlemen—In accordance with a resolution passed by your honorable body November 1st, 1889, calling for a detailed report from the heads of the several departments of the city government, to be submitted annually to the city comptroller, on or before January 15th of each and every year, I herewith submit the following report for the year ending January 1st, 1890.

I have visited during the year 1,540 places of business where either weights or measures were used in the transaction of business. I have examined and tested, and either found correct, repaired or condemned 3,035 sets of scales. I have examined and tested, and either found correct or condemned 4,951 different kind of measures. I have had repaired, at no expense to the owner, 127 sets of scales. I found it necessary to condemn 27 sets of scales. I have also condemned 203 measures of different kinds. I have also weighed or caused to be weighed 107 loads of coal during the year, not on the city scales, but on street scales that I had previously tested that are situated in those portions of the city where the coal was being mostly delivered, which I had a right to do according to the ordinance governing the same. I have found but a very few instances where the parties, in my judgment, were de-liberately trying to cheat the public by short weight or measure. Those parties I have since watched as closely as possible, under the circumstances, but have yet to find the first case where an arrest for a violation of the ordi-nance would be justifiable. I have in all cases tried to avoid the necessity for an arrest, by appealing to the better nature of those parties whom I sus-pected of giving light weights and measures and trying to wint out to them pected of giving light weights and measures, and trying to point out to them the fact that it was for their own intesests not to do so, believing that was better than to try and put up some job on them whereby I might have them arrested for the sake of a little notoriety for myself, which I am not seeking at the expense of my fellow man. I have collected during the year the sum of \$1.123.45 in fees. I have paid out for an assistant \$250. He was a first-class mechanic, and helped to repair a good many sets of scales that would otherwise have had to go to some scale company at considerable expense to the owner, for which I never charged a cent, as the ordinance does not allow the officer to make any charge for repairs. Neither does it imply that the officer shall make any repairs, but I had it done in a good many cases because I saw that it would be but a small matter, and would save the owner an unnecessary bill of expense and would make him have a better appreciation of the office and of the officer than he had heretofore done, as I soon found when I first started out in the beginning of the year that most merchants considered the ordinance an unnecessary tax and burden for which they had heretofore received little or no benefit as conducted by some of my predecessors. I have found a good many scales and measures that were against the owners and in favor of the public, and I sincerely believe that a majority of those that were against the public was more through the carelessness of the owners than from any intention on their part to have them so. I am satisfied from my experience of a year as city sealer that shortage in weights and measures (and there are no doubt a good many instances of it) is done by deliberately weighing out less than has been paid for on scales that are right, or measuring out less than has been sold or paid for in measures that are right, by not filling the measures full. Parties who do that kind of business are usually too sharp not to have their scales and measures all right, and the first thing they will say, if accused of shortage, will be to tell you that their scales and measures have all been tested by the city sealer, and show his stamp on the same. In my judgment, the only way to correct the evil of shortage in weights and measures is to amend the present ordinance so as to make it a misdemeanor, punishable by fine or imprisonment or both, for any person to weigh or measure out any less quantity than they have received pay for, and to give the proper officer authority to make complaints and arrests for the same on what would seem to be reliable information. I wish to add in closing my report, that the universal feeling among the merchants and dealers in general is that the officer should be paid by the city, the same as all other inspectors are. It would certainly do away with the tendency of a good many dealers to spirit away a large portion of their measures and weights about the time they find the officer is coming around, to prevent paying so much apiece for having them tested. There is much more that I could say in relation to the office and its duties, but I prefer to wait until $\,\mathrm{I}\,$ can speak more intelligently about them.

Very respectfully submitted, A. G. MOSHER,

City Sealer of Weights and Measures.

OF THE

LIBRARY BOARD,

Of the City of Minneapolis.

LIBRARY BOARD.

T. B. Walker, - - - President (Term expires 1895.)

E. M. Johnson, - - - - Secretary.

(Term expires 1891.)

J. B. Atwater, Thomas Lowry.

(Term expires 1893.) (Term expires 1893.)

M. B. KOON. SVEN OFTEDAL. (Term expires 1891.) (Term expires 1893.)

EX-OFFICIO.

The Mayor of the city.
The President of the Board of Education.
The President of the University of Minnesota.

LIBRARY SERVICE.

LIBRARIAN, HERBERT PUTNAM.

ASSISTANTS,

JOSEPHINE CLOUD KR. HEIBERG.
GRATIA COUNTYMAN. LOUISE I. LYNSKEY.
MIRIAM M. DAVIS. MRS. M. C. NORTON.

JESSIE MCMILLAN.

PAGES.

John Fralick. Rufus Holbrook. Robert Kelsey.

JANITOR, LEWIS A. RUNGE.

OF THE

LIBRARY BOARD.

MINNEAPOLIS, MINN.

MINNEAPOLIS, MINN., January 31, 1890.

To the Honorable the City Council of the City of Minneapolis:

GENTLEMEN—Herewith you will find:

First. A review of the operations of this board from its creation to date. Second. A statement showing the receipts and disbursements of this board for the past fiscal year.

Third. A statement showing the receipts and disbursements of this board

from its creation to December 10, 1889.

Fourth. A statement showing the cost of the library building in detail, including the cost of the ground upon which it stands.

Fifth. A list of the subscribers to the building fund, with the amounts

subscribed by each.

Sixth. A copy of the act creating this board.

Seventh. A copy of the contract entered into between this board and the Minneapolis Athenaeum.

By Herbert Putnam, Librarian. Respectfully submitted, THE LIBRARY BOARD. Minneapolis, Minn.

REVIEW OF THE OPERATIONS OF THE LIBRARY BOARD OF MINNEAPOLIS. FROM ITS CREATION TO DATE.

This board was created by an act of the legislature of the state of Minnesota, approved March 2, 1885, being an act amending the charter of the city of Minneapolis, so as to create and establish a board to be styled the "Library Board of the City of Minneapolis."

The stated purpose of such board was to establish and maintain in the city of Minneapolis public libraries and reading rooms, galleries of art and museums, for the use and benefit of the inhabitants of said city.

The same act named the following persons as members of the board, viz: Thomas Lowry, M. B. Koon, J. B. Atwater, Sven Oftedal, T. B. Walker, E. M. Johnson, together with the mayor of the city, ex-officio, the president of the board of education, ex-officio, and the president of the University of Minnesota, ex-officio.

At the first annual meeting of the board, held April 21, 1885, the terms of

office of the six directors mentioned was by lot determined as follows:

Of Thomas Lowry and J. B. Atwater, one year; of Sven Oftedal and T. B. Walker, three years; of M. B. Koon and E. M. Johnson, five years. At the same meeting the following officers were elected: President, T. B. Walker: secretary, E. M. Johnson.

At the next succeeding meeting (February 1, 1885) by-laws were adopted. By these, three standing committees of the board, composed each of three

members, were constituted, viz: Finance, building, library

By section nine of the act, the board was empowered to "Enter into asso-

ciation with any independent society or other organization owning libraries or museums, or existing for purposes kindred to those contemplated in this act, upon such terms and conditions as shall best promote the object for which said board is created."

The first important act of the board was under this clause: a contract with the Minneapolis Athenæum, a corporation created in 1869 for the purpose of maintaining a library in the city of Minneapolis. By this contract (the text of which is appended) the library owned by the Athenæum, together with such additions as should be made to it from time to time, was to be placed in the library building to be erected by the library board, to be there used upon the same conditions as the collections belonging to the library board. The Athenæum further agreeing to contribute the sum of eight thousand (\$8,000) dollars towards the erection of the said library building, it being stipulated that the library board should in return bear all expenses of maintaining the Athenæum books, including insurance and binding, and the salary of an assistant librarian to have special supervision of the property of the Athenæum.

This contract is to endure for ninety-nine years from the date of its ratification by the library board, July 25, 1885.

By an act of the legislature approved February 28, 1885, the city of Minneapolis was authorized to issue bonds to the amount of one hundred thousand (\$100,000) dollars, the proceeds to be expended by the library board in the purchase of ground and the erection of a library building, provided that subscriptions to the amount of fifty thousand (\$50,000) dollars, for the same object, should be obtained from other sources.

The necessary proportion of subscriptions having been guaranteed, the bonds were accordingly issued. From the proceeds of these, of the subscriptions paid in, and of the annual tax levy authorized by the charter the board has proceeded to its work of the past four years.

October 6, 1885, a site was purchased on the corner of Hennepin avenue and Tenth street for the sum of fifty-two thousand, eight hundred (52,800) dollars. On February 20, 1886, the adjoining fifty feet on Tenth street was purchased for the sum of ten thousand (10,000) dollars. In the spring of 1886 five local architects were invited to submit plans for a library building, the board to pay for each rejected plan the sum of one hundred (100) dollars, the same to become the property of the board. Three non-resident architects also submitted plans without compensation. After an extended examination Messrs. Long & Kees, of Minneapolis, were chosen as the architects of the building.

Excavation was begun upon the ground in the summer of 1886, and the foundation and superstructure proceeded from that time onward. Unfortunate delays in certain of the contracts deferred the completion of the building from the spring of 1889 till late in the fall.

The library was formally opened on Monday, December 16, 1889. No local individual invitations were issued, but some two thousand were sent to official bodies thoughout the United States, to newspapers, and to various literary and scientific institutions throughout the world. There were no formal exercises. The entire building with its various collections of literature, science and art, and with the added cheerful beauty of music and flowering plants, was thrown open and the entire public invited o inspect and enjoy it. The enthusiastic reponse showed the interest the institution had inspired. From four until ten o'clock thousands through its portals.

The pamphlet which is soon to be issued, illustrative of the library building, renders unnecessary any detailed description in this place. The following points may, however, properly be noted here:

The complete plan of the building as finally determined upon contemplated a quadrangle, 150 feet on Tenth street and about 116 on Hennepin avenue. It was decided to build only the Tenth street and Hennepin avenue sides at present, leaving the two inner sides to be finished when needed. The building is, as it stands, however, an organic whole, the two sides to be constructed simply furnishing further book rooms, museum rooms and galleries, in addition to those already available. The full frontage of the land on Tenth street being 190 feet and on Hennepin avenue, 132 feet, the quad-

rangle, when completed, will still leave a clear space of forty feet on Tenth

street and of 16 feet on Hennepin avenue.

Second. As to the present capacity of the reading rooms and book rooms: the three main reading rooms, periodical, general and ladies', have a total floor area of 4,400 square feet, equivalent to a single room 40 feet in width by 110 feet in length, or sufficient accommodation for 250 readers. Additional rooms that may be utilized in the basement would raise this number to 300. To these facilities, however, should be added those provided in the book rooms for student reference. There are in the two book rooms sixteen alcoves, each eight feet by ten, twenty-four feet in diameter, forming in effect a reference reading room, also a medical reading room below with accomodations for some twenty readers, and the patent room with space for ten or fifteen more. The aggregate accomodations are thus far larger than from any single standpoint would be apparent. The reading space, instead of being concentrated, having been differentiated to suit the various different classes of readers.

Third. The capacity of the present shelving is about 80,000 or 90,000 volumes, or provision for about four years' increase to the present library. When needed, an auxiliary room may be extended back of the present delivery room, into what will be the court of the quadrangle. This will entail slight expense and may be done independently of the construction of the

final rear wings.

During the winter of 1886-7, the librarian of the Athenaeum had been engaged in the East in making up purchase lists of books for the library board

as well as for the Athenæum.

In May, 1888, the sum of ten thousand (10,000) dollars was appropriated by the library board for its share of the purchase. The Atheneum had now on hand accumulated proceeds of its bequest (Spencer) fund, amounting to nearly twenty thousand (20,000) dollars. Its librarian was authorized to go abroad for the purpose of the joint purchase. His direct purchases abroad amounted to some 8,000 volumes. Miscellaneous American and foreign purchases during the subsequent year aggregated 9,000 volumes; so that the 13,000 volumes forming the old library of the Atheneum and the nucleus of the new joint library was at the time of opening the latter (December 16, 1889), augmented to 30,000 volumes. A collection also, by reason of the peculiarly favorable conditions of its formation, of an unusually valuable character; having as its basis a library of slow and careful growth (the accessions of 25 years) and for its enlargement a union of two purchasing funds, one designed especially for standard reference material—the other naturally devoted to more popular classes of literature.

The standard sets being purchased abroad at second-hand were in many cases secured at prices far below their American market value. The thirty thousand dollars (30,000) expended thus yielded an unusually rich return. During the winter and spring of 1888-9 the new books were received and

catalogued, a house being rented for the purpose.

On July 1, 1889, the old Athenæum was closed and the two collections removed to the basement of the new building. About 2,500 volumes of the old library were re-bound at the expense of the city. About 1,000 volumes, too far worn for binding, were distributed by the Athenæum among the four chief hospitals of the city, the poor farm, and the home for children andaged women. Four hundred and ninety volumes, while being bound, were destroyed in the Tribune fire of November 28, 1889. The balance finally turned over amounted to 12,107 volumes.

The new purchases of the Athenaum up to December 16, 1889, amounted to 8,825 volumes; of the city board during the same period 8,906 volumes, making the exact total in the library, when thrown open, 29,838 volumes.

The books of the two collections, city and Athenæum, are distinguished by separate marks of ownership; besides being kept carefully distinct in the administrative records. They are, however, classified together on the shelves and catalogued together, so that they form to the public in effect but one library. A complete card catalogue classified after the same manner as the books on the shelves (in about 175 popular divisions) and in effect a miniature of the shelves was ready for use at the time of opening.

As soon as possible this will be supplanted by a larger and fuller class, title and subject card catalogue, the present cards being rearranged to form a pure author catalogue. A complete printed finding list will be ready sometime in

February to be sold at fifteen cents a copy.

At present the only printed catalogues are the prose fiction and juvenile (five cents) and the foreign literature sold at three cents. In addition there has been printed the system of classification in use, with explanation and a very full subject index. Only 1,000 copies of this were struck off, and the plates were destroyed in the Tribune fire.

The Hennepin County Medical Society and the Minneapolis Dental Society have turned over to the public library the collection of books and pamphlets that had formed the libraries of these societies. Various members of the medical and dental professions of this city have in addition contributed the sum of \$335.30 to be expended in medical serials for the coming year. interest thus indicated has led the board to assign a special series of alcoves to the uses of a medical reading room.

The board has also to acknowledge with gratitude, gifts of books and pamphlets from the following individuals: Dr. Burnside Foster, E. S. Corser, G. A. Edwards, Wm. Cheney, W. A. Mitchell, Dr. W. E. Leonard, Dr. C. H. Hunter, Dr. E. J. Brown, Dr. C. M. Bailey, H. T. Welles, W. H. Dunwoody, B. A. Mason, L. Findorff, of Minneapolis. Also from various departments of the United States government, the Michigan State Library and various institu-

tions of learning throughout the United States.

The other institutions, besides the Athenaum having quarters in the library building, are the Minnesota Academy of Natural Sciences and the Minneapolis Society of Fine Arts. Both of these are permitted to occupy rooms during the pleasure of the board.

The former has placed its entire natural history collection in the building free of access to the public. The latter has transferred its art school under the directorship of Mr. Douglas Volk, to the rooms assigned it on the third floor, and the work of the school is now in regular operation there. A free night class has been undertaken by the society, which on the first evening opened with the extraordinary attendance of one hundred.

Some eight societies have already applied for, and been granted permission to hold their meetings in the meeting room of the building. societies existing for purposes of literary, artistic or scientific culture, includ-

ing three medical associations.

By a resolution of the board it was determined that "no denominational or political organizations shall be permitted to hold meetings in the building and no society occupying rooms in the building shall discuss religious questions in a sectarian spirit or political questions in a partisan spirit."

By the courtesy of the exposition board and permission of the United States customs department a large part of the casts owned by the exposition were loaned to the library board in December, to remain for the period of four months, with privilege of purchase at the end of that time.

Before the opening of the building the library board received a gift of extraordinary interest and value in the shape of six oil paintings, donated by J. J. Hill. Esq., of St. Paul. They are as follows: "The Storming of Tel el Kebir," by A. de Neuville: "Fishing Lesson." by Alf Guillon: "Forest of St. Germain," by A. Jacomin: "Market Morning—Constantinople." by A. Pasini: "Gate of Justice—Granada," by Prof. A. Wagner: "Japanese," by G. Courtois.

By the terms of the gift, as cordial and gracious, as the gift was thoughtful and generous, it was provided that should the art department ever be abolished the paintings might be sold for the use and benefit of the library. paintings with some hundred others secured as loans through the efforts of the Society of Fine Arts, form the collection with which the art gallery was thrown open, and the bulk of which will remain within it for some months to The interest and value of the art department is also enhanced by a collection of pottery, porcelain and miscellaneous objects of fine art workmanship courteously and generously loaned by individual residents of Minneapolis. Among the striking objects of this collection stands now also a suit of Maltese armor presented to the library board by the Hon. C. M. Loring.

A feature, also properly of the art department, as well as a necessary

adjunct of the external architecture of the building, will be the colossal bronze figure of History which the board has ordered of Mr. Jacob Fjelde—a Minneapolis sculptor. It is to occupy the niche over the main entrance;

and within a few weeks will be in place.

On the day following the opening, applications for library cards began to be received; on the 19th, books began to be issued. Up to January 31, a period of less than six weeks, 5,161 applications had been filed and 4,227 cards issued, and 13,902 volumes had been circulated. On one day, the circulation for home use reached 885 volumes. This, in spite of a holiday season, in spite of the comparative smallness of the library and in spite of the fact that the only printed catalogue available covered only two departments, and also in spite of the very extensive use of the periodical reading rooms and the reference department within the building—has hardly a parallel in library experience. The attendance at the art gallery and museum has averaged hundreds daily. These departments were for a fortnight kept open the same hours as the library. They are now open from 1:30 to 6 and 7:30 to 10 p.m. The library is open every day in the year: on ordinary days from 8:30 a. m. to 10 p. m.: on Sundays and holidays for reference use from 2 until 10 p. m. As slight restriction as possible is interposed in its use. All persons are free to use it within the building. All residents of Minneapolis above the age of 14 years are entitled to draw books for home use without charge. The only preliminary is the filing of a guaranty, blanks for which are furnished by the library, signed by some responsible person resident in the city, and not of the family of the applicant. The card issued upon this guaranty is good for a period of two years. To guard against the spread of infectious disease through the use of the library, the rules demand that cases of such disease in the households of borrowers shall be immediately reported to the library; and that no more books shall be issued to such household until six weeks after the removal of the quarantine sign. The board of health has declared an attempt to draw books within such period a misdemeanor.

By a resolution of October 30, 1889, the board of education tendered to the library board rooms in the North Side High School building for use as a branch library and reading room. By a resolution of January 11, 1890, the library board voted to accept this offer, and to establish the branch, both as a reading room and delivery station, as soon as the rooms should be made ready. The board likewise declared its readiness to establish similar branches on the East side and South side, whenever similar facilities should be offered.

At the regular city election of 1886, Messrs. Thomas Lowry and J. B. Atwater were re-elected members of this board for the regular term of six years; at the election of 1888, Messrs. T. B. Walker and Sven Oftedal were similarly re-elected. The officers of the board have continued as at first chosen, viz.: T. B. Walker, president: E. M. Johnson, secretary. In November, 1890, the office of librarian was established and Herbert Putnam, the librarian of the Athenaeum, who had already served a year as acting librarian of the board, was elected to fill it.

A Statement of the Receipts of the Library Board from its Creat		
Received from the sale of city bondstaxes in 1886	\$21,6	78.89
taxes in 1887		92.43
taxes in 1888. taxes in 1889.		23.65 23.66
		159,418,63
individual subscriptionsincidental sources.		45,260.00 572.75
Total receipts		\$307,051,38
A Statement of Disbursements of the Library Board from its Cred		
Paid for building site		\$63,867.89
Paid account building		220,180.68
incidentals books		1,780.67 10,094.42
supplies		1,721.64
insurancefuel		268.27 198.50
salaries in library		4,256.42
janitorfurniture		$\frac{298.50}{27.00}$
binding		759.52
light		22.58
Cash on hand		\$303,476,39 3,574.99
	-	\$307,051.38
A Statement Showing the Cost of the Library Building (Completed Cost of the Ground Upon Which it Stands	l) in Dete	
Cost of land		\$63,867 89
foundation and excavation		5,853.00 11,994.95
iron beams		10,950.00
cut stone in place. brick and carpenter work.		61,000,00
mill work		68,250.00 14,750.00
heating apparatus		12,075.00
covering heating apparatusstair ironwork		135.64 $10,200.00$
heat-controlling apparatus		2,200.00 760.10
electric wiring		2,385.00
plumbing plastering		2,925.00
architects and plansbook stacks		6,900.00 14,900.00
elevatorlighting fixtures		1,900.00
Fjelde statue		3,000.00 3,500.00
Fjelde statue. sidewalk and eurbing. grading lot.		2.618.35 279.54
tinting walls		725.00
gas-pipingsuperintendence of construction		49.20 2,825.00
furniture and miscellaneous		20,850.00
Cost of building complete		\$324,893.57
A list of the subscribers to the Library Building Fu		
subscribed by each:	, 5	mg tumotures
The Athenæum		500
T. B. Walker 5.000 E. Moore		400
C. A. Pillsbury & Co. 5,000 L. F. Menage. Thomas Lowry. 5,000 T. B. Casey		250
W. D. Washburn 5,000 G. H. Christian		
Clinton Morrison 5,000 E. M. Johnson 5,000 John Atwater 5,000		250
W. S. King 5,000 R. C. Benton		
Long & Kees 3,000 J. W. Griffin		
R. B. Langdon		50
W. H. Dunwoody. 500 C. C. Jones		50
Chas, Martin 500 H. Paige		
F. Peavey 500 F. G. Corser		10
G. H. Rust 500 A. R. Graves		
W. H. Eustis		\$61,665
S. Hill 500 Total paid u		
	l	\$16.405

AN ACT

To Amend the Charter of the City of Minneapolis.

To Amend the Charter of the City of Minneapolis.

Be it Enacted by the Legislature of the State of Minnesota:

Section I. An act entitled "an act to amend and consolidate the charter of the city of Minneapolis," approved March 8, 1881, is hereby amended by adding to the end of such act the following: chapter 12, section I, there is hereby created and established in and for the city of Minneapolis a board which shall be styled the "library board of the city of Minneapolis," said board shall have power to establish and maintain in the city of Minneapolis public libraries and reading rooms, galleries of art and museums for the use and benefit of the inhabitants of said city, and for the purpose of so doing it shall have the following powers, that is to say: It may adopt a common seal and be capable of suing and being sued, and of taking by gift, grant, purchase, devise, bequest or otherwise any real or personal property and of using selling, controlling, conveying and engaging the same and of entering into, making, performing and enforcing contracts. It may make and publish from time to time by-laws for its own guidance, rules and regulations for the government of its agents, servants and employes, and for the government and regulation of the from time to time by-laws for its own guidance, rules and regulations for the government of its agents, servants and employes, and for the government and regulation of the libraries and other collections under its control. It may hire or erect and maintain as it shall deem best, buildings suitable for the purpose contemplated by this act, but it shall never erect any building upon land to which it has not the title in fee simple. It may appoint all necessary agents and employes, fix their compensation, and may remove such appointees. It shall have the expenditure of all moneys collected by taxation or otherwise and placed to the credit of the library fund, and shall, in addition to the herein enumerated powers, have full powers and authority to undertake and perform every act necessary or proper to carry out the spirit and intent of this act.

SEC. 2. Said library board shall consist of the mayor of the city of Minneapolis, the president of the board of education of the city of Minneapolis, the president of the State of Minnesota, who shall respectively be members ex officio thereof, and six other members who shall be elected from time to time, as herein provided, by the legal voters of the city of Minneapolis, and who shall be resident and qualified electors of said

voters of the city of Minneapolis, and who shall be resident and qualified electors of said

city

At the annual city election to be holden on the first Tuesday of April, 1886, there shall be elected two library directors for the term of six years, and thereafter there shall every second year be elected two library directors for the term of six years from the third Tuesday in April after their election. In case any library director shall die, resign, remove from the district or otherwise vacate his office more than one year before the expiration of his term of office, a library director may be chosen at the annual election after such vacancy shall occur, to fill the place for the unexpired term of the director so vacating. vacating.

SEC. 3. All elections for library directors shall be at the annual city election, and as a part of such city election, and such library directors shall be voted for upon a separate ballot, and a separate ballot-box shall be provided at each precinct, which shall be kept

SEC. 3. All elections for library directors shall be at the annual city election, and such library directors shall be voted for upon a separate ballot, and a separate ballot-box shall be provided at each precinct, which shall be kept by the judges to receive the ballots of such persons as are entitled to vote for such library directors. The judges of election shall make returns of the votes cast for library directors, and the city council shall canvass the same as in the case of city officers. The city clerk shall forthwith notify the persons elected of their election, and in all matters not herein specially provided for, touching such election, the rules provided for the election of city officers of said city shall apply.

SEC. 4. Every library director, before he shall enter upon the duties of his office, shall take, subscribe and file in the office of the city clerk of said city, an oath or affirmation that he will support the consitution and laws of the state of Minnesota, and discharge the duties of his office to the best of his ability. The officers of the library board of the city of Minneapolis shall consist of a president and secretary, who shall be library directors. The city treasurer shall be treasurer of the board and the comptroler shall perform such duties in connection therewith as are hereinafter prescribed. The secretary of the board and the city treasurer of the city of Minneapolis shall each, before entering upon the duties of his office, execute and deliver to the library board of the city of Minneapolis a good and sufficient bond, payable to the library board of the city of Minneapolis a good and shall be approved by the board, and with sureties who shall be freeholders of said city and shall be approved by the board, and with sureties who shall be freeholders of said city and shall be propored by the board, and wine shall justify in the aggregate to double the amount of the board and given and principal in the bond shall well and faithfully perform and discharge all the duties of his offi

which shall at all times show the precise financial condition of said board, the amount of bonds, orders, or other evidences of indebtedness outstanding and the redemption of the same when redeemed, and he shall countersign all bonds, orders or other evidences of said

board, and keep an exact account thereof, showing to whom and for what purpose issued and the amount of each, and all moneys received or paid out by the city treasurer on account of said board. All claims allowed by the board shall be audited by the city comptroller. The city treasurer shall receive and safely keep all moneys of the board and purpose like. The city treasurer shall receive and safely keep all moneys of the board and purpose like and countersigned by the comptroller and endorsed by the payee, and shall keep full books, records and vouchers of all his transactions. He shall deposit the moneys of the city of Minneapolis in any banks which shall be designated by the city council of sald city as depositories of funds of said city, and the funds, while on deposit in such banks, shall, for all purposes connected with such deposit, be regarded as the money of the city of Minneapolis, and may be recovered as such by said city from said banks and the surcties of such banks, upon the bonds which said banks shall execute to the said city, but when drawn or recovered from such banks shall be accounted from the bonds which said banks shall execute to the said city, but when drawn or recovered from such banks shall be accounted to the said city, but when drawn or recovered from such banks shall be accounted to the said city, but when drawn or recovered from such banks shall be accounted to the said board shall never issue any bond or promissory note, certificates of indebtedness or other obligation, for the payment of money, except that the same shall be made to come due at a date not later than the first day of July the next ensuing, and then for no greater sum than can be paid, when due, out of the regular revenues of the board for the year in which such band, when due, out of the regular revenues of board for the year in which such band, when due, out of the regular revenues of the board for the year in which such band in the payment of an object to indebtedness, or of other obligation.

Sec. 6. Said librar

bequest of such property, and as to such property, the board shall be held and considered to be special trustees.

SEC. 8. The annual meeting of the board for the election of its officers for the year shall always be on the third Tuesday of April at such hour and place as the board may, by its rules appoint for its regular meetings. But vacancies may be filled whenever they shall happen during the year, and officers shall hold until their successors are elected and qualified, unless they cease to be eligible. The regular meetings of the board shall be fixed by its rules and by-laws. Special meetings may be called by the president or any two library directors by written notice, stating the time, place and object of the meeting, to be served personally or by mail at least twenty-four hours before such meeting. But whenever a majority of all the directors are present at any meeting the same shall be a legal meeting at which any business which could come before a regular meeting, may be transacted, irrespective of whether any legal notice was given for such meeting or not.

SEC. 9. Said library board may enter into association with any independent society or other organization owning libraries or museums, or existing for purposes kindred to those contemplated in this act, upon such terms and conditions as shall best promote the object for which said board is created.

for which said board is created.

Sec. 10. All libraries and museums established under this act, and so far as consistent with the preceding section, all collections in any manner under the charge of the library board herein established, shall be forever free to the inhabitants of the city of Minneapo-

board herein established, shall be forever free to the inhabitants of the city of Minneapo-lis, always subject, however, to such reasonable rules and regulations as shall be neces-sary for their effective administration.

SEC. II. That Thomas Lowry, M. B. Koon, John B. Atwater, Sven Oftedal, T. B. Walker, E. M. Johnson, together with the mayor of the city, ex-officio, the president of the board of education of the city, ex-officio, the president of the university of the state of Minnesota, ex-officio, are hereby appointed and constituted the first directors of the library board of the city of Minneapolis, and the six first above named shall be the elect-ive members of said board, and shall hold office, two for one year, two for three years, and two for five years from the third Tuesday in April next following the passage of this act;

and at their first regular meeting shall cast lots for such respective terms. The library board herein appointed shall meet at the office of the city clerk of the city of Minneapolis, on Saturday the 21st day of March. 1885. or so soon thereafter as practicable, and may then and there effect a temporary organization and attend to the transaction of any business. SEC. 12. This act shall take effect and be in force from and after its passage.

Approved the 2d day of March, 1885.

THE LIBRARY BOARD OF THE CITY OF MINNEAPOLIS WITH THE MINNEAPOLIS ATHENÆUM-CONTRACT.

Whereas, The library board of the city of Minneapolis is about to erect a library building in the city of Minneapolis in accordance with the provisions of the act of the legislature of the state of Minnesota creating said library board, (which said act was approved March 2, A. D. 1885), and for the purpose in said act prescribed, and Whereas, The said library board is desirous of furnishing the people of Minneapolis with a public library as soon as practicable, and Whereas, The Minneapolis Athenæum, a corporation duly organized and created under the laws of the state of Minnesota, owns a large and valuable miscellaneous library, and

library, and
Whereas, The building now occupied by the said Minneapolis Athenæum is too small for
the convenient arrangement and management of said library and therefore the said library
is not accomplishing in the community all that the members of the said Athenæum desire

Whereas, The funds and resources of the said Minneapolis Athenæum are not sufficient to provide suitable room and accommodations for the said library;

Now therefore, this contract, made this first day of September, A. D. 1885, between the said "The Minneapolis Athenæum," a corporation, party of the first part, and the said "library board of the city of Minneapolis," party of the second part, witnesseth that the said parties hereto, in consideration of the mutual promises and engagements hereinafter contained, and in consideration of the sum of one dollar paid by each to the other, the receipt whereof is hereby acknowledged, do mutually covenant and agree together as follows to-wit:

the receipt whereof is hereby acknowledged, do mutually covenant and agree together as follows, to-wit:

First. That upon the completion of a suitable library building, to be erected by said second party in said city of Minneapolis (which said building is to be erected and made ready for occupany as soon as practicable), the said first party will remove thereto its entire library, including all books, pamphlets, periodicals, maps, charts, and all its library property of of every name and nature, and that said library shall remain in said building and under the general care and supervision of said second party during the continuance of this contract, and that during said time all books, periodicals and other library property which may be acquired by the said Minneapolis Athenaeum by purchase or otherwise, shall remain and be kept in the said library building and under the general management of the said library board of the city of Minneapolis.

Second. That the said library shall be forever free to the inhabitants of the city of Minneapolis, always subject, however, to such reasonable rules and regulations as shall

Second. That the said fibrary shall be forever free to the inhabitants of the city of Minneapolis, always subject, however, to such reasonable rules and regulations as shall be necessary for its effective administration.

Third. That the said first party will subscribe and pay to the building fund of the said second party the sum of eight thousand dollars (88,000), which said sum is to apply on the general subscription contemplated in section 3 of the act approved February 28. A. D. 1885, authorizing the city of Minneapolis to issue bonds for the benefit of the said library board.

board. Fourth. That upon the completion of said library building the said second party will at all times during the continuance of this contract provide and furnish therein, for the said first party, sufficient room or rooms, well lighted and heated, and furnished with shelves and all other appurtenances for the ample and convenient arrangement and use of the aforesaid library of first party, and that said second party will also provide and furnish for the use of said first party, a suitable room in said building for the purpose of holding the meetings of the shareholders of the said Minneapolis Athenaum, and of the board of directors and of the other officers thereof, and that the above mentioned room or rooms, and all the privileges of said building herein granted to said first party, shall be provided by said second party without any charge for the rent and use thereof, and that the said first party shall at no time be put to any charge or expense for the furnishing, lighting, heating, ventilation or repairs of said library building nor any part thereof. thereof. Fifth.

Fifth. That the board of directors of the said Minneapolis Athenæum shall have the right to appoint, subject to the approval of the said second party, one assistant librarian, who shall have especial supervision and care of the said property of the Minneapolis Athenæum, and that the duties of the said assistant librarian in his relation to the said Minneapolis Athenæum shall be such as the board of directors as the said Athenæum chall precedible.

shall prescribe.

Sixth. That the party of the first part herein shall retain its title to and property in Sixth. That the party of the first part herein shall retain its title to and property in all the books and other library property which may be placed in charge of the said library board, by virtue of this contract or otherwise. That all said books shall be kept apart and separate from the books and property of the said library board, and from any other books whatsoever. That the books of the Minneapolis Athenaeum shall be plainly and distinctly marked in such manner as to distinguish them from all other books under the control of said library board. That the said books of the Minneapolis Athenaeum shall be kept in good repair, shall be rebound when necessary, when books are lost they shall be replaced; and whatever periodicals, magazines, and unbound publications the Minneapolis Athenaeum may have on hand or may hereafter acquire, shall be bound in some convenient form, and that reasonable care shall be taken of all the property of the Minneapolis Athenaeum, which shall be placed in charge of the library board. And that

during the continuance of this contract the said library board shall keep the said property of the Minneapolis Athenæum continually insured against loss by fire, in good and reliable companies, in the name and for the benefit of the said first party in such sum as said first party or the board of directors thereof may determine, not exceeding the actual cash value of the said property.

Seventh. That the said party of the second part will bear all the expense of carrying out this contract; that it, the said second party, will pay:

1. For removing the said library to the building above mentioned.

2. The expense of marking and cataloguing the same.

3. The salary of the assistant librarian provided for in this agreement.

4. All expense incurred in carrying out the provisions of paragraph six herein, to-wit: Keeping said library in repair, rebinding and caring for books, replacing lost books, binding periodicals, magazines, and unbound publications, all premiums for insuring said property, and, in short, that it, the said second party, will pay all necessary and reasonable expense incurred in the proper care and management of the library of said party of the first part.

Eighth. That this contract shall take effect and be in force when it shall have been ratified and adopted by the said library board of the city of Minneapolis and by the said Minneapolis Athenaeum, and shall continue and be in force for the period of ninety-nine

OF THE

BOARD OF EDUCATION,

Of the City of Minneapolis.

BOARD OF EDUCATION FOR 1889.

MEMBERS.

W. D. Hale, term expires January 1, 1891.
B. F. Nelson, term expires January 1, 1891.
John G. Moore, term expires January 1, 1893.
A. C. Austin, term exires January 1, 1893.
Robert Pratt, term expires January 1, 1893.
M. Falk Gjertsen, term expires January 1, 1895.
A. T. Ankeny, term expires January 1, 1895.

OFFICERS OF THE BOARD FOR 1889.

A. C. AUSTIN,	-	-		·		President.
M. FALK GJERTS	EN,				-	Secretary.
E. H. MOULTON,	-	-	-	-		Treasurer.
W. S. Pearson,	-	-		-	-	- Clerk.
W. S. PARDEE,	- Su	peri	nter	nden	t o	f buildings.
JOHN E. BRADL	EY.	Рн.	D	Sui	ot.	of Schools.

STANDING COMMITTEES OF THE BOARD FOR 1889.

Committee on Rules and Regulations—Messrs. Gjertsen, Ankeny and Moore.

Committee on Finance, Claims and Insurance—Messrs. Hale, Nelson and ${\bf A}{\bf n}{\bf k}{\bf e}{\bf n}{\bf y}.$

Committee on Buildings and Repairs—Messrs. Nelson, Pratt and Hale.

Committee on Teachers, Janitors and Salaries—Messrs. Ankeny, Hale and Gjertsen.

Committee on Fuel, Supplies and Printing—Messrs. Moore, Gjertsen and Pratt.

Committee on Text Books, Course of Study and Library—Messrs. Pratt, Nelson and Moore.

The President is ex-officio a member of all standing committees.

OF THE

BOARD OF EDUCATION,

MINNEAPOLIS, MINN.

To the Honorable City Council of the City of Minneapolis, Minn.

Gentlemen—In submitting to your honorable body, at this time a concise statement of the condition of the board of education, I labor under this disadvantage: the school and fiscal year of the board of education ends June 30th; and our compilations are of necessity, therefore, incomplete. The attendance of pupils for the year, for instance, will be at least 2,000 greater than now shown, the great influx of new scholars occurring in the spring.

With this explanation I submit the following statistics, leaving to the annual report of the board of education, to be issued next July, the complete

and detailed narrative of the work of this department.

Running expenses	203,971.60
Total expense Cash value of lands Cash value of buildings	958,400.00
Total value of real estate. Number of school buildins (including two rented). Number of school buildings erected during the present year. Number of additions erected during the present year. Number of school rooms.	46 5 2 483
Number of recitation rooms Number of teachers employed (day schools). Number of teachers employed (evening schools). Number of sittings for pupils. Number of pupils enrolled (September to January) day schools only Number of pupils enrolled for year ending June 30, 1889.	498

The work of the board of education has been unusually satisfactory during the past year, and the progress of the schools has kept pace with the steady growth of the city. Each year sittings for 1,500 to 2,000 new pupils must be provided, and the resources and energy of the board are taxed to meet the constant demand. The past year accommodations for 3,792 new pupils were provided by the erection of seven new buildings and additions, but several of the schools are still crowded, and obliged to operate on double sessions. A feature of our building operations the past year has been the low cost, notwithstanding a marked improvement in all essential advantages of construction. Special pains have been taken with the light, ventilation and other sanitary arrangements, and we now construct, at very low cost, a well arranged and thoroughly modern school building. Of late all buildings have been built by contract, the contract price covering the building, complete except furniture.

Care in the selection of janitors and in purchasing of fuel, combined with improvements in apparatus, is resulting in a gratifying economy in the cost of heating the school buildings. The furnaces in the older buildings are gradually being replaced by steam plants, resulting in a greater efficiency at

a less cost.

In the curriculum of the schools, no decided changes have been made the past year although there has been gradual and general improvement.

Manual training and sewing are being extended into the lower grades as fast as practicable, and good results are sure to follow. The high schools, espec-

ially the branch schools are showing a vigorous growth.

The evening schools of this city are a feature not to be overlooked. Last year instruction in the common English branches was given during the four winter months to 2,545 scholars unable to attend day schools. This year, although the number has not been so great, the per cent. of attendance and general interest has been greater, and the success and efficiency of these schools is settled beyond reasonable doubt. By means of these schools, our large foreign population is more readily assimilated, and being taught the language and history of our country, make more ambitious, industrious and intelligent citizens. These are the common schools of the common people, where those cut off from the day schools by reason of poverty, age or misfortune can acquire the rudiments of an education which will raise them above the level of the ignorant and unambitious.

A general financial statement will be found in your comptroller's report,

and a list of the real estate under the head of city property.

Respectfully, M. FALK GJERTSEN,

Secretary.

OF THE

BOARD OF PARK COMMISSIONERS,

Of the City of Minneapolis.

PARK BOARD OFFICIALS.

CHARLES M. LORING, - - - President.
ANDREW C. HAUGAN, - - Vice President.
WALLACE G. NYE, - - - Secretary.
CHELSEA J. ROCKWOOD, - - Attorney.
WM. M. BERRY, - - - Superintendent.
FRANK H. NUTTER, - - - Engineer.

PARK COMMISSIONERS-1889.

EDWARD C. BABB, Mayor, Ex-officio.
ALBERT E. ALLEN, 1893.
ALBERT J. BOARDMAN, 1893.
EMERSON COLE, Ex-officio.
THOMAS DOWNS, Ex-officio.
ZEPHERIEN DEMEULES, 1893.
WILLIAM W. FOLWELL, 1895.
ANDREW C. HAUGAN, 1895.
JOSEPH INGENHUTT, 1891.
CHARLES M. LORING, 1891.
SAMEUL A. MARCH, 1891.
ABIEL H. MITCHELL, 1891.
JESSE E. NORTHUP, 1895.
*JOHN C. OSWALD, 1993.
J. ARTHUR RIDGWAY, 1895.

*John C. Oswald resigned and E. M. Wilson elected to fill the unexpired term.

OF THE

BOARD OF PARK COMMISSIONERS,

MINNEAPOLIS, MINN.

To the Honorable City Council:

GENTLEMEN—The year 1889 has been a busy one in the department of parks. A greater area of land has been acquired, and more extensive improvements have been made than in any previous year in the history of the board. The most important acquisition is Minnehaha Park, consisting of 123 acres surrrounding the famed Minnehaha Falls, the title to which, having been secured by the State of Minnesota under condemnation proceedings inaugurated by act of the legislature of 1885, was vested in the city of Minneapolis upon payment by this board of \$92,283.16 to the State.

The plan of connecting the series of lake shore drives with Minnehaha Park by a parkway along the valley of Minnehaha creek from the shore of Lake Harriet was given a decided impetus early in the season by the generous gift of about 40 acres of the valley, varying in width from 200 to 600 feet, and extending from the junction of Humboldt avenue and Fiftieth street to Lyndale avenue. The board by purchase has also acquired title to a strip of land 200 feet in width from Lake Harriet along Humboldt avenue to the Butler and Fogg tract.

Another acquisition, the importance of which will be more generally recognized in the immediate future than at the present time, is Saratoga Park, a tract of 64 acres lying about three miles west from the centre of the city and extending from Western avenue to Superior avenue. The cost of this tract, including interest on deferred payments, was \$100,000, which amount the vendors accepted in certificates of indebtedness, payable in ten annual payments, and the whole cost being assessed upon benefitted property payable in ten annual payments, said certificates will be paid from the funds so derived.

Proceedings in condemnation were instituted during the year for the acquisition of 38½ acres, known as Powderhorn Park, located in the 7th ward, and a tract of 9 acres in the 3d ward, known as Todd's Pond. Appeals from the appraisal were taken in both matters, which appeals are yet undetermined.

Two small parks, comprising about six acres, and located in Oak Park addition, were given to the city by E. S. Corser, et al, owners of the addition.

The boating privileges at Lake Harriet and Central Park lake were operated during the year by the board, and netted nearly \$3,000.

The parks have been maintained during the year and given thorough police protection and the driveways have been sprinkled and kept in good condition at a cost of \$25,592.75.

The improvements are as follows: Kenwood Boulevard was completed. Its entire length, from Central Park to Lake of the Isles, being 1.68 miles.

Lake Harriet was further beautified by the construction of two additional drives, one on the west and one on the south shore, and the drive along the west bank was widened and systematically planted with trees and shrubbery.

Two drives were constructed along the Minnehaha Parkway from Lake Harriet to Lyndale avenue.

At Lake of the Isles the dredge has been kept in operation, and the material excavated from the lake was deposited along the marshy borders.

The observatory at Prospect Park was completed in conformity with the

original plans.

At Minnehaha park the work was directed to the clearing up of the whole area and the beautifying of that portion in the immediate vicinity of the falls, stairs were constructed leading into the glen.

An office building was constructed in Central park for the superintendent

and the lake within Elliot park was cleared and a fountain placed therein.

Barnes park and Portland park were completed and Oak Lake park was improved by seeding and planting.

Upon request of property owners trees were planted on Dupont, Queen and Sheridan avenues north, the cost of the trees, planting and care for three

years being assessed upon the abutting property

Additional work was done in the direction of boulevarding Lyndale avenue north, the road bed was brought to grade and the trees previously planted were cared for. The cost of completing this improvement was assessed upon abutting property and as this revenue is derived the board will continue the Respectfully submitted, work.

WALLACE G. NYE, Secretary Board of Park Commissioners.

ANNUAL REPORT OF THE SECRETARY

OF THE

BOARD OF COURT HOUSE, AND CITY

HALL COMMISSIONERS,

Minneapolis, Minn.

THE BOARD OF COURT HOUSE AND CITY HALL COMMISSIONERS.

WM. D. WASHBURN, JOHN. C. OSWALD, OLIVER T. ERICKSON, DAVID M. CLOUGH, TITUS MARECK, John Swift.

JNO. DELAITTRE, WM. S. CHOWEN. LARS SWENSON, GEORGE A. BRACKETT, EDGAR F. COMSTOCK. EDWARD M. JOHNSON.

OFFICERS OF THE BOARD FOR 1890.

DAVID M. CLOUGH, President.
EDWARD M. JOHNSON, Vice President.
Lars Swenson, Treasurer.
Chas. P. Preston, Secretary.
Long & Kees, Architects.
(Offices, Kasota block,)
O. T. ERICKSON, Clerk of the Works.
(Office at the building.)
DANIEL FISH, Attorney.
(Offices, Oneida biock.)

CONSTRUCTION COMMITTEE.

E. M. Johnson,

JOHN DELAITTRE, E. F. COMSTOCK, O. T. ERICKSON, JOHN SWIFT, GEORGE A. BRACKETT.

FINANCE COMMITTEE.

E. M. Johnson, W. S. Chowen, TITUS MARECK,

E. F. Comstock.

AUDITING COMITTEE.

TITUS MARECK, O. T. ERICKSON, GEORGE A. BRACKETT.

ANNUAL REPORT

OF THE

BOARD OF COURT HOUSE AND CITY HALL COMMISSIONERS,

MINNEAPOLIS, MINN., December 31, 1889.

To the Board of Court House and City Hall Commissioners:
GENTLEMEN—I have the honor to submit herewith my report for the fiscal Respectfully, CHAS. P. PRESTON, Secretary. year ending December 31, 1889.

RECEIPTS AND EXPENDITURES FOR THE YEAR 1889.

Receipts.

FROM SALE OF "CITY SERIES" BONDS— Par value	\$200,000.00 18,537.00 6,032.00	and the control
From sale of side-walk and curb-stone		\$224,569.00 150.00 200.00
Total receipts Balance in treasury December 31, 1888		\$224,919.00 25,832.57
Total to be accounted for		\$250,751.57
Expenditures.		
Tower Foundation Account—		
Paid Ring & Tobin, contract in full. RUBBLE AND FOOTING STONE ACCOUNT—		\$10,630.63
Paid trustees F. Cook estate on account		13,201.00
Paid Bengt Aronson on account contract. IRON WORK ACCOUNT—		88,283.31
Paid Crown Iron Works Co. on account contract		14,528.36
GRANITE, CUT STONE AND BRICK WORK ACCOUNT— Paid Haglin & Morse on account contract		24,111.76
OFFICE BULLDING ACCOUNT— Paid for labor. Paid for lumber. Paid for mill work Paid for roofing Paid for hardware. Paid for screens and awnings.	\$32.25 81.46 33.70 20.00 16.95 10.00	
WATER CLOSET ACCOUNT—		194,36
Paid for plumbing and fixtures Paid for labor. Paid for lumber. Paid for iron work.	\$82.23 19.58 13.22 1.43	
FENCE ACCOUNT—		116.46
Paid for lumber. Paid for labor. Paid for hardware.	\$57.47 46.68 18.47	
		122.82
FURNITURE AND FIXTURES ACCOUNT— Paid for cabinet letter file. Paid for furniture for clerk of the works. Paid for Fairbanks scales.	\$33,00 31,00 221,50	4.00
ARCHITECTS FEES ACCOUNT -		\$285,50
Paid Long & Kees, architects		\$22,500.00
Paid Frank Plummer, engineer		8553.00
Amount carried forward		174,527,20

Expenditures (continued).

Dapontitution (continued).		
Expense Account—		
Amount brought forward		174,527.20
Paid salary of clerk of the works	\$880.00	
Paid salary of the secretary	1,200.00	
Paid salary of attorney	500.04	
Paid salary of office janitor	24.00	
Paid office rent	840.00	
Paid gas bills.	104.50	
Paid care of gas lamps	15.50	
Paid for telegrams	4.87	
Paid for postage	4.00	
Paid for expressage	1.70	
Paid for advertising	205.85	
Paid for printing	66.75	
Paid for printing Paid for repairs to fence and water closet	28.70	
Paid for drilling	53,75	
Paid for drillingPaid for expert accountant	15,00	
Paid for cut of building	8.00	
Paid for boundary stones	6.00	
Paid for rent of box in safe deposit vault.	12.00	
Paid for office stationery	19.10	
Paid for certified copy of act of legislature	2.00	
Paid for painting signs	1.00	
Paid for testing scales.	75	
Paid for lumber for scales	16.20	
Paid Harry B. Cramer, rebate on advertising privelege	50.00	4,059.71
That There's terminal privilege		1,000111
Total expenditures		178,586.91
Balance in treasury December 31, 1889		72,164.66
Total accounted for	٠.	\$250,751.57
rotal accounted for		Фант, 191.91

SUMMARY OF THE TRANSACTIONS OF THE BOARD OF COURT HOUSE AND CITY HALL COMMISSIONERS, FROM ITS ORGANIZATION APRIL 25TH, 1887, TO DECEMBER 31, 1889.

Receipts.

Amount of Bonds which the Board is Authorized to Issue— "City series" bonds "County series" bonds	\$750,000.00 750,000.00	
Amount of bonds unsold	190,000,00	\$1,500,000.00 915,000.00
Amount of Bonds Scld— "City series" bonds" "County series" bonds	\$250,000.00 335,000.00	\$585,000.00
Amount of Premiums Received on Bonds Sold— "City series" bonds "County series" bonds	\$18,917.00 2,000.00	\$20,917.00
Amount of Accrued Interest Collected on Bonds— "City series" bonds "County series" bonds.	\$6,632.01 1,500.00	\$8,132.01
Total receipts		\$614,049.01
Expenditures.		
REAL ESTATE.		•
Net cost of Block 77, City of Minneapolis, after deducting the proceeds of sale of buildings, etc., thereon	\$321,408.00	
BUILDING. Amount expended in excavating building and material	\$171,885.17	
Amount expended in architects' fees, including full sets of plans and drawings complete	\$30,000.00	
works and janitor	5,263.80 987.00	
Amount expended in cost of competition, premiums to competing architects and exhibit of plans. Amount expended for expenses, including office rent, advertising.	3,302.11	
Amount expended for expenses, including office rent. advertising, printing, stationery, postage, etc Amount expended in erecting fence around building	5,306.81 556,78 1,112.71 310.82 1,751.15	
Total expenditures		
Total receipts from all sources. Total expenditures.	4014,004,007	\$614,049.01 541,884.35
Balance in treasury of the board		\$72,164.66

ANNUAL REPORT

OF THE

CITY ASSESSOR,

Of the City of Minneapolis.

J. C. PLUMMER,

- - City Assessor.



ANNUAL REPORT

OF THE

CITY ASSESSOR.

MINNEAPOLIS, MINN.

MINNEAPOLIS, January 10, 1890.

To the Honorable City Council of Minneapolis:

GENTLEMEN—I have the honor to submit herewith my annual report of the work of this department for the year ending December 31, 1889.

Being the odd numbered year, only the personal property and new buildings were subject to assessment.

By reference to schedules A and B of this report, you will find the personal assessment amounting to \$23,348,930, and the new buildings \$2,668,650.

For each item of the personal assessments reference is made to schedule B by further reference to schedule A by taking the real estate assessment of 1888 with the buildings, together with the personal assessment and new buildings of 1889, you will find the total assessment of the real and personal property of the city to be \$130,864,055, an apparent gain of \$3,539,891.

DISBURSEMENTS.

The disbursements of this department for the year ending December 31, 1889, have been:

For salaries	. \$8,235.53
Printing and stationery	371.39
Correcting atlas and plats	. 183.00
Maps	
Bill of probate clerk for index of estates	. 30.00
Leather case for books and maps	10.00
Horse hire	. 125.50
Incidentals	5.00
	-

Of this amount \$1,000 were expended on the working plats of the city, leaving as the actual cost of the last assessment, \$7,974.52.

ABATEMENTS.

From the assessment of 1888 there has been 162 abatements, amounting to \$489,631; the tax on which would have been \$9,527.03. These abatements are largely the result of errors, probably 75 per cent of them can be justly charged to the inadequacy of map equipment of this department. With the completion of the working plats now in progress, the number of abatements on account of errors of location will be largely diminished.

PERSONAL TAX LAWS.

I desire to call the attention of your honorable body to our personal assessment laws. In my opinion they are not the best that human ingenuity has devised. Perhaps we can learn some things from some of the older states in this direction that would be to our advantage to have adopted in Minnesota: particularly our system of assessment on goods and merchandise of merchants and manufacturers. If, instead of assessing the amount of goods and merchandise on hand at a given time, there should be a suitable tax imposed on the gross sales for the year, said tax to be equivalent in money raising power to the rate levied on other property. I believe we would get a

more equitable distribution of the tax than is now obtained under the present system. Honest men would pay no more than they do now. Tax evaders would be obliged to come to the front and pay their just proportion. Manufacturers would be relieved from the injustice of paying a tax on the same articles, oftentimes as now happens, two or three years before the articles even arrive in the city. Such a system could work injustice to none.

The item of household goods and furniture is perhaps the one of all others in which there is the most inequality, and it is the item that affects the greatest number of individuals. Many people return to the assessor, under this item, all they ought, quite a large class, from motives of pride, return much more than they have, others are assessed by the deputy assessor for more than they should be, and I regret to have to say, quite a numerous class, return from 20 to 50 per cent, of what should be returned. This class is best able of any to bear the necessary burden of taxation. For a remedy I would suggest if the exemption was increased to \$300, or perhaps \$500, much of this inequality would be eliminated from the assessment roll, and if, in place of the exemption, we could impose a poll tax of not less than \$1.50 or more than \$2.00, and make the treasurer's receipt therefor the voter's qualification. The state, county and city would be none the loser.

ADDITIONS TO THE CITY LIMITS.

The colored lines on the map accompanying schedule Λ show the different additions to the territory of the city since 1873.

BUILDINGS.

In schedules C, D and E, you will find a comparative statement of the

assessments of the city from the year 1880 until the present time.

Referring to the assessment of 1889 and 1838, there were on May 1, 1889, 25,465 buildings of the classes named in the table in schedule C, exclusive of elevators, mills and manufactories, schools, churches and public buildings. There are now 21 elevators, of 13,990,000 bushels capacity, assessed for \$885,000. One hundred and sixty-four mills and manufactories assessed for \$3,922,200.

LAND ASSESSMENTS, PLATTED AND UNPLATTED.

The entire land assessment of 1888, was \$80.598.637, this was made up of 87,577 tracts or descriptions of which 780 are for unplatted land, this was assessed for \$10.720.080, or about $12\frac{1}{2}$ per cent of the whole. Many of these unplatted tracts are very valuable and are immediately available for the customary uses of a large city. Many of them the owners have so far declined to plat or dispose of to parties who would improve them. There is no reason why these lands should not be assessed on the same basis as adjacent lands, the improvement of which have contributed so much to enhance the value of all surrounding property.

No inconsiderable part of these unplatted lands are prospectively valuable: already they have a value beyond their value for agricultural purposes, the only use they can be put to now or in the near future. Their value at present is largely speculative and should not be made the basis for assessment.

They are now assessed too high and should be reasonably reduced.

Of the platted lands there are localities that in the last few years have rapidly increased in value. By reason of favorable locality or many expensive permanent improvements and other causes, their values have become in a measure standard. They can be sold to ready purchasers on short notice for a reasonable price. Of some of these the assessment has not kept pace with their rapid enhancement in value. A reasonable advance on these will probably offset the decrease that should be made on the agricultural lands.

NEW ADDITIONS.

In this connection, I would suggest to your honorable body, that in view of the advantages to be derived from the city by owners of new additions. sub-divisions, etc., that an ordinance or resolution be made that hereafter no plat for any new addition or sub-division of land shall be accepted by the city until the owners thereof shall have conspicuously marked their blocks and lots with suitable, permanent stakes, and shall have graded the streets therein to conform to the grade established by the city. Let them make

their property recognizable from the adjacent prairie and accessible, before asking the city to recognize it and improve it, and before inviting people to make homes on it.

PERCENTAGE OF GAIN.

The percentage of gain from 1880 to 1882 was	
The percentage of gain from 1882 to 1884 was	16 3-5
The percentage of gain from 1884 to 1886 was	111/2
The percentage of gain from 1886 to 1888 was	
The percentage of gain from 1880 to 1889 was	374

STATE BOARD OF EQUALIZATION.

Among the last acts of the late state board of equalization, were those raising the valuation on the household goods and furniture of Minneapolis, twenty-five per cent.; the diamonds and jewelry twenty-five per cent. and the

bank stock three per cent.

In the absence of our representative on the board, strenuous efforts were made to raise the goods and merchandise on a plausible quibble, which failed. The item of household goods and furniture was one of the few items on which in this year of depression we had made a gain over the preceeding year; and was the item of all others, that should have been let alone. With due deference to the wisdom of that august body, I characterize their action as unfair and unjust; unfare in that we were not represented before them; unjust because where it may deal justly with one individual under that head, it is an act of oppression on one hunderd who have been assessed already for as much as they had. Our bank stock was assessed at the same rate as that of St. Paul. It is a well known fact among business men, and the board could have readily ascertained the fact that St. Paul's bank stock is worth as much as ours, yet it was equalization to raise it three per cent. above that of St. Paul. To justify their act it was necessary to go behind the regular returns to the assessor, to the returns made to the comptroller at some previous time, which was clearly illegal.

Minneapolis pays two-ninths of the entire tax of the state; it has a repre-

sentation on the board of one-sixteenth.

While such a disparity exists in the make up of the board, and with jealous rivalry to meet, will we not be liable to have a similiar experience, will they not again strain at the gnat of our goods and merchandise, give it up, and swallow the camel of our husehold goods and furniture?

COMPARED WITH OTHER CITIES.

By the courtesy of the officials of the assessors' depatment of the cities named in schedule "F," I am able to exhibit a comparative table of the assessments for 1889 on leading grades of real estate corresponding with similiar grades here. Referring to this table you will find that our best retail property, namely on Nicollet avenue from Washington avenue to Sixth street, is assessed from \$500 to \$550 per front foot; the highest assessment being the corners of Washington and Nicollet avenues, about \$750 per foot: the best wholesale lots, \$200 to \$350 per foot. Medium retail business lots on north and south Washington, Plymouth, Cedar, Franklin avenues and other business centers, \$50 to \$125 per foot. The best resident property, Seventh street between Second and Sixth avenues south, \$125 to \$225 per foot. This has a prospective business value and is not strictly resident property. Resident property on Tenth street from Second to Eighth avenues south and on Clifton avenue from \$100 to \$125 per foot: \$35 to \$40 per foot are assessed on First, Second, Stevens, Third, Clinton, Fourth, Fifth, Portland and Park avenues between Grant and Twenty-fourth streets, and on University avenue. Fourth, Fifth and Sixth streets southeast; this grade of assessment comprises some of our very best resident territory. Workingmens' lots on and near street car lines and motor within three miles of mills and business, from \$5 to \$15 per foot.

Many of our citizens entertain an opinion that Minneapolis assessments are high and taxes more than they should be. In a new and rapidly growing city, many permanent and expensive municipal improvements must necessarily be made that older cities do not now have to provide for. A careful examination of schedule "F" shows most favorable for the conservatism of Minneapolis valuations, and as the figures are all official from the last assessment roll

of the cities named therein, should be convincing.

COMPARATIVE COST OF THE ASSESSOR'S DEPARTENT WITH OTHER SIMILIAR CITIES.

It is with much satisfaction that I refer to the table of comparative cost in

schedule "F," the figures speak for themselves.

I would respectfully ask those of our fellow citizens who are disposed to cavil at what they term municipal extravagance, to carefully examine this table.

IN CONCLUSION.

The query naturally arises, are we likily to maintain this marvellous growth? What are the reasonable probabilities?

To answer this question it becomes necessary to inqurie into the immediate causes for our unprecedented prosperity as a city, during the last decade.

About the year 1880, we were favored with a combination of circumstances such as it has been the good fortune of few cities to meet. For several years prior to 1880, we were making comparatively slow growth, while the great northwestern empire tributary to us was making tremendous strides in development, uutil in 1880 the country had far outgrown the cities. About the same time manufacturing and general business in the east became depressed after a long period of prosperity with the usual results, that many individuals withdrew their capital from uncertain and precarious enterprises, and sought homes and investments in western cities; from this source, we drew our full share. At the same time several of our leading railroads acquired extensive terminal facilities in Minneapolis; most of the lands for which, was in the hands of small holders. In 1883, the Northern Pacific was completed to the Pacific coast. Either of these causes alone would have produced marked activity. From this remarkable combination of fortuitous circumstances, we have achieved the splendid results of to-day.

It is hardly probable that the next decade will witness for us another similiar combination: nither are we likely nor is it desirable to acquire much more territory. Yet by the fostering of and promotion of manufactories, with which I feel as a city, we should deal liberally, in the way of assessments, with the increase of street car facilities, with the momentum we have acquired and with the continued development of the mighty empire of which Minneapolis is the entrepot, we can confidently expect a reasonable gain. I hazard the prediction of an average gain of ten per cent. per annum on our

present valuation for the next ten years.

In conclusion, I heartily tender my thanks to the council collectively and individually, and the heads of the departments for the uniform kindness with which I have been treated. I also cheerfully acknowledge my obligations to my deputies and assistants for their faithful co-operation in the somewhat arduous duties of this department.

Very respectfully,
J. C. PLUMMER,
City Assessor.

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Personal Assessment of 1889.

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Schedule "A."

Assessment of 1889.

WARD.	No. of personal assessments.	Personal.	No. of new buildings.	Assessed value of new build-ings.	Total.
First Second. Third. Fourth. Fifth Sixth. Seventh Eighth. Ninth. Tenth Eleventh Eleventh Twelfth Thirteenth.	537 957 1,255 2,549 2,178 464 782 1,088 384 222 613 126 171	\$717,395 2,015,530 1,647,070 9,998,760 5,619,305 552,330 381,010 1,187,440 314,270 264,775 350,845 155,390 144,810	82 115 232 151 106 54 250 208 186 124 120 40 70	\$63,750 100,700 269,860 580,210 696,215 63,415 212,110 237,700 136,540 75,750 168,400 26,450 37,550	\$781,145 2,116,230 1,916,930 10,578,970 6,315,520 615,745 593,120 1,425,140 40,525 519,245 519,245 181,840 182,360
Total	11,326	\$23,348,930	1.738	\$2,668,650	\$26,617,580

Assessment of Real Estate for 1888 and Personal Property and New Buildings for 1889 is as follows.

Ward.	Realty.	Buildings.	Personal of 1889 and new b'ld'g.	Total.
First Second. Third. Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Tenth Twelfth Twelfth	7,419,348 $20,780,038$ $14,002,906$	\$926,460 1,714,815 2,711,229 7,129,058 5,371,650 1,279,080 1,199,925 2,163,420 785,754 388,744 1,336,163 123,795 236,745	\$781,145 2,116,230 1,916,930 10,578,970 6,315,520 615,745 593,120 1,425,140 450,810 340,525 519,245 181,840 182,360	\$2,943,157 9,009,755 12,047,507 38,488,066 25,690,076 4,353,856 5,356,687 12,113,825 4,494,822 3,750,226 4,198,455 3,299,392 5,178,241
Total	\$80,598,637	\$25,368,648	\$26,617,580	\$130,864,055

Schedule "C."

Assessment of 1888.

WARD.	No. of tracts of realty.	Total assessmit of rlty.	No. of un- platted real- ty tracts.	Assessm'nt of unplatted realty.	No. of build- ings.	Assessmn't of buildings.	Amount of personal as- sessment.	Total valuation of real, personal and building.
First Second. Third. Fourth Fifth Sixth Seventh. Eighth Ninth Tenth Eleventh. Twelfth Thirteenth	3,500 6,638 7,832 7,104 3,057 1,852 7,610 9,120 8,255 7,248 2,915 6,625 15,281	\$2,235,552 5,178,708 7,419,348 20,780,038 14,002,906 2,459,025 3,563,642 8,525,265 3,258,258 3,019,957 2,343,045 2,933,757 4,759,136	33 58 10 5 49 89 66 103 7 188 89	\$263,050 886,150 813,700 1.114,540 33,600 622,425 866,475 1,143,645 1,706,130 107,925 1,614,240 1,132,600	577	\$926,460 1,714,815 2,711,229 7,129,058 1,279,080 1,199,925 2,163,420 785,754 389,744 1,336,163 1,23,705 2,36,745	\$494,580 1,053,290 1,561,609 10,113,176 4,934,491 485,935 397,543 808,464 576,962 278,211 362,580 145,494 204,544	\$1,656,592 7,946,813 11,692,186 38,022,264 24,309,047 4,223,850 5,161,110 4,620,974 3,687,912 4,041,788 3,203,046 5,200,425
Total	87,577	\$80,598,637	780	\$10,720,080	23,897	\$25,368,648	\$21,356,879	\$127,324,164

Area, 53.5 square miles.

Number of Assessments on Buildings in Each Ward of the Values as Noted at the Top of Each Column—Assessment of 1888.

WARD.	\$500 and less.	\$500 to \$1,000.	\$1,000 to \$2,000.	\$2,000 to \$3,000.	\$3.000 to \$5.000.	\$5,000 to \$10,000.	\$10,000 to \$20,000.	\$20,000 to \$40,000.	\$40,000 to \$100,000	No.assessments of manufactur- ing buildings.	Amt. of assessment on manufacturing buildings.
First Second Third Fourth Fifth Sixth Seventh Eighth Ninth Tenth Eleventh Twelfth Twelfth	608 374 1.054 465 286 685 1.109 439 961 249 519 125 168	212 310 739 338 284 292 584 943 524 152 504 73 108	114 344 631 623 672 283 392 106 214 84 443 31 69	40 99 158 287 255 56 34 13 12 88 15	27 74 63 255 218 38 15 1 9 4 26 1	13 10 26 194 110 26 2 3 1 7 2 2 2	6 1 11 117 57	7	3	12 18 14 11 42 5 7 4 7 10 6 1	\$ 180,000 483,500 303,000 248,000 1 497,000 109,500 49,000 7 50,000 154,500 35,200
Total	7,042	5.063	4,006	1.056	731	396	192	7	3	137	\$3,924,700
To which add 25 per cent for barns and outbldgs	1,761	1,266	1,002	264	183	99	48	2	1	34	
Total	8,803	6,329	5,008	1.320	914	495	240	9	4	171	23,293
Total new buildings 1889. Add 25 per cent for barns	, tene	ments	and o	uthou	ises						17,38 434
Total No. of buildings Ma	y 1st.	1889									25,465

Schedule D.

Assessment of 1887.

WARD.	Realty.	Personal.	New buildings.	Total.
First	\$2,994,290	\$1,028,688	\$76,550	\$4,099,528
Second	6,164,208	1,491,890	133,900	7,789,998
Third	7,801,661	1,583,145	226,600	9,611,406
Fourth	24,184,229	9,240,110	581,450	34,005,789
Fifth	18,058,422	4,933,565	248,330	23,240,31
Sixth	3,521,600	444,650	111,300	4.077.55
Seventh	3,819,008	310,855	228,700	4,358,56
Eighth	7.507.034	776,585	631,200	8,914,819
Ninth	2,951,147	296,020	163,350	3,350,51
Tenth	1,779,293	252,190	65,850	2.097,33
Eleventh	3,196,694	238,740	128,750	3,564,18
Twelfth	1,753,800	174.800	10,700	1,939,30
Thirteenth	2,695,508	127,480	49,750	2,872,73
Total	\$86,426,894	\$20,898,718	\$2,596,438	\$109,922,04

Assessment of 1886.

WARD.	Realty.	Personal.	New buildings.	Total.
First Second. Third Fourth Fifth Sixth Seventh Eighth.	\$5,085,765 5,957,705 8,474,055 24,064,808 17,967,915 6,631,170 4,223,865 8,045,065	\$856,001 1,238,074 1,234,518 8,972,618 4,665,254 631,418 179,959 473,644		\$5,141,766 7,195,779 9,708,573 33,037,426 22,633,169 7,262,588 4,403,824 8,518,709
Total	\$80,450,348	\$18,251,486		\$98,701,834

Assessment of 1885.

WARD.	Realty.	Personal.	New buildings.	Total.
First . Second Third. Fourth Fifth Sixth Seventh Eighth		\$707,286 1,011,064 790,809 8,274,480 4,069,209 680,759 158,155 300,194	\$155.855 128,480 450,310 862,090 375,800 144,605 109,840 280,460	\$863,139 1,137,554 1,241,110 9,136,570 4,445,009 825,164 267,905 580,654
Total		\$15,989,956	\$2,506,640	\$18,496,596

Area 33 2 square miles.

Assessment of 1884.

WARD,	Realty.	Personal.	New buildings.	Total.
First Second Third Fourth Fifth Sixth Seventh Eighth	4,702,840 6,938,204 21,891,581 15,848,681 5,861,305 3,899,375		\$861,388 1,087,990 800,732 7,652,281 3,861,874 598,103 203,553 280,163	\$5,117,983 5,790,830 7,738,936 29,543,862 19,710,555 6,459,408 4,102,928 7,693,674
Total	\$70,810,992		\$15,346,034	\$86,158.176

Total number of descriptions of real estate, 52,087. Total number of buildings, 15,187. New territory added: First ward, 2½ square miles; second ward, 1½ square miles; third ward, 3 square miles; fourth ward, 3 square miles; seventh ward, 4¾ square miles; eighth ward 9 square miles. Total 23¾ square miles.

Schedule "E."

Assessment of 1883.

WARD.	Realty.	Personal.	New buildings.	Total.
First. Second. Third. Fourth Fifth. Sixth Seventh Eighth.		\$833,493 1,226,847 704,876 7,233,546 4,116,996 561,722 168,482 189,004	\$130,675 164,400 311,750 788,850 882,470 331,550 207,750 256,150	\$964,168 1,391,247 1,016,626 8,022,396 4,999,446 893,272 376,232 445,154
Total		\$15,034,966	\$3,073,595	\$18,108,561

Assessment of 1882.

WARD.	Realty.	Personal.	New buildings.	Total.
First Second Third. Fourth Fifth Sixth	\$2,742,965 3,078,775 3,382,603 15,808,108 13,105,580 4,618,950	\$497,004 780,823 409,760 5,106,672 2,534,151 456,321		\$3,239,969 3,859,598 3,792,363 20,914,780 15,639,731 5,075,271
Total	\$42,736,981	\$9,784,731		\$52,521,712

Assessment of 1881.

WARD.	Realty.	Personal.	New buildings.	Total.
FirstSecond. Third Fourth Fifth. Sixth		\$430,712 627 975 278,939 4,656,282 1,998,154 324,517	\$101,465 172,850 91,100 298,600 337,700 168,825	\$532,177 800,825 370,039 4,954,882 2,335,854 493,342
Total		\$8,316,579	\$1,170,540	\$9,487,119

Assessment of 1880.

WARD.	Realty.	Personal.	New buildings.	Total.
First. Second. Third. Fourth Fifth. Sixth	\$1,360,313 1,843,021 1,875,301 6,566,345 7,411,247 1,861,040	\$358,645 449,107 227,672 3,702,604 1,916,572 432,472		\$1,718,958 2,292,128 2,102,973 10,268,949 9,327,819 2,293,512
Total	\$20,917,267	\$7,087,072		\$28,004,339

Area 10.4 square miles.

Assessed valuation from 1880 to 1889 inclusive.

1880	\$28,004,339		
1881	30,404,379	1886	98,701,834
1882	52,521,710	1887	109,992,042
1883	60,865,542	1888	127,325,164
1884		1889	130,864,055

23% square miles of new territory added.

Schedule "F."

Assessment of 1889 compared with Other Cities for the Same Year, also a Comparison of Assessments on Business and Residence Lots of Similar Grades to Ones. These Assessments are per Front Foot.

CITIES.	Area in square miles.	Popula- tion.	Popula- Real Estate. Personal.	Personal.	Total.	Assessm'ts on best wholesale lots.	Assessm'ts on best retail lots.	Best residence lots.	Medium residence lots.	Cheap residence lots.	Rate of taxation.
										- E	*7 ner cent.
		119 000	\$17,000,000	84.000.000	\$21,000,000	\$500 to \$900	\$150 to \$250	\$150	99	CI.	111.
Omaha	6,1+2	11.000	000000000000000000000000000000000000000	020 000 01	022 088 13	150 to 250	600 to 700	100	96	**	TII milis.
Kansas City	=	180.000	44,961,130	10.505,050	OTTO OTTO		000 + - + 000 +	9	950 to \$300	20 to \$30	+14 "
Dotroit	66	270,000	117,453,140	39,052,650	156.505.790	1,500 to 1,600 1,600 to 1.800	1,600 to 1,600		5	is	221% mills.
aromari		010 000	099 859 08	19,819,540	100,498,200	600 to 700	750 to 1,000	150	2,		
Milwaukee	er —		2001-1010	0	000 001 100	200 000 1 300 to 1 500 1 400 to 2.500	1 400 40 2.500	150	7.0	30 to 70	zz mills.
St. Louis	£9	450,000	195,978,250	31,191,730	224.109.300	000 000	Service 1 and	100	92	3 to 15	19 4-5 mills
Louisville	21	200,000	58,970,378	9,381,554	65.851,872	700 to 900	700 to 900 (80 to 1.200 11)	5			#12 mills.
Pittsburg. 27 65-100	27 65-100	300,000	198,782,443	1,518,232	200,300,495		Marion 201 eet um		900 04 021	10 to 15	: :
St. Paul	756	200,000	102,043,955	19,373,093	121,417,048	400 to 600)	of to				\$21 4-5 mills
Minneapolis .	531.2	240,000	106,716,347	23,348,930		130,065,147 200 to 350	200 to - 100	300 T			
		-	300000000000000000000000000000000000000		+ Por city purposes.	oses.	Com tax	×	\$ State, com	\$ State, county and city tax.	ax.

prospective business value beyond their value for the foot for best residence lots in Manheapolis are for lots on Seventh street that have a prospective business value beyond their value for residence burposes, and they are not structly residence lots; \$100 and \$125 per front foot are for lots on Tenth street, Clifton avenue and property on Central Park. The \$55 and \$40 assessments are to for on Park, Portland, Fourth, Third, Clinton, Stevens avenues, etc., and University avenue, Fourth, Fifth and Sixth streets, southerst, the enginest residence sections of the city. A Comparison of the Cost of the Assessment

Louiswine Pittshive.	St. Paul	0 Minneapolis	Buffalo (valuation of Buffalo, cioloso, eco)		
T 00'00'65	Kansas (ity.	Detroit	Milwaukee	St. Louis.	ner l

the

\$10,310.00 14,000.00 9,500.00 7,974.53 36,860.00





